

OM protein - protein search, using sw model

Run on: April 8, 2004, 15:30:06 ; Search time 43.3077 Seconds  
 (without alignments)  
 71.766 Million cell updates/sec

Title: US-09-787-443A-3  
 Perfect score: 11  
 Sequence: 1 ARALNWGAKPK 11

Scoring table: OLIGO  
 Gapop 60.0 , Gapext 60.0

Searched: 1586107 seqs, 282547505 residues

Word size : 0

Total number of hits satisfying chosen parameters: 22883

Minimum DB seq length: 11  
 Maximum DB seq length: 11

Post-processing: Listing first 100 summaries

Database : A\_Geneseq\_29Jan04:\*  
 1: geneseqp1980s:\*  
 2: geneseqp1990s:\*  
 3: geneseqp2000s:\*  
 4: geneseqp2001s:\*  
 5: geneseqp2002s:\*  
 6: geneseqp2003as:\*  
 7: geneseqp2003bs:\*  
 8: geneseqp2004s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query			DB ID	Description
		Match	Length	%		
1	11	100.0	11	3	AAAY88529	Aay88529 NCAM Igl
2	11	100.0	11	3	AAAY88563	Aay88563 NCAM Igl
3	11	100.0	11	5	ABG69331	Abg69331 Human neu
4	4	36.4	11	2	AAR55834	Aar55834 Meningoco
5	4	36.4	11	2	AAW34129	Aaw34129 LFA-1 bet
6	4	36.4	11	2	AAW34126	Aaw34126 LFA-1 bet
7	4	36.4	11	2	AAW84064	Aaw84064 Human V3
8	4	36.4	11	2	AAW74320	Aaw74320 HJ loop p
9	4	36.4	11	4	AAJ01280	Aaj01280 Hepatitis

10	4	36.4	11	4	AAJ00171	Aaj00171	Hepatitis
11	4	36.4	11	4	AAJ00737	Aaj00737	Hepatitis
12	4	36.4	11	4	AAJ01538	Aaj01538	Hepatitis
13	4	36.4	11	4	AAJ02159	Aaj02159	Hepatitis
14	4	36.4	11	4	AAJ02672	Aaj02672	Hepatitis
15	4	36.4	11	4	AAJ02807	Aaj02807	Hepatitis
16	4	36.4	11	4	AAJ02404	Aaj02404	Hepatitis
17	4	36.4	11	5	ABB46474	Abb46474	Desmoglei
18	4	36.4	11	5	ABB46499	Abb46499	Desmoglei
19	4	36.4	11	5	ABB46518	Abb46518	Desmoglei
20	4	36.4	11	5	ABB46523	Abb46523	Desmoglei
21	4	36.4	11	5	ABB46546	Abb46546	Desmoglei
22	4	36.4	11	5	ABB46191	Abb46191	Desmoglei
23	4	36.4	11	5	ABB46227	Abb46227	Desmoglei
24	4	36.4	11	5	ABB46276	Abb46276	Desmoglei
25	4	36.4	11	5	ABB46310	Abb46310	Desmoglei
26	4	36.4	11	5	ABB46494	Abb46494	Desmoglei
27	4	36.4	11	5	ABB46283	Abb46283	Desmoglei
28	4	36.4	11	5	ABB46542	Abb46542	Desmoglei
29	4	36.4	11	5	ABB46247	Abb46247	Desmoglei
30	4	36.4	11	5	ABB46248	Abb46248	Desmoglei
31	4	36.4	11	5	ABB46570	Abb46570	Desmoglei
32	4	36.4	11	5	ABB46522	Abb46522	Desmoglei
33	4	36.4	11	5	ABB46198	Abb46198	Desmoglei
34	4	36.4	11	5	ABB46311	Abb46311	Desmoglei
35	4	36.4	11	5	ABB46303	Abb46303	Desmoglei
36	4	36.4	11	5	ABB46469	Abb46469	Desmoglei
37	4	36.4	11	5	ABB46470	Abb46470	Desmoglei
38	4	36.4	11	5	ABB46571	Abb46571	Desmoglei
39	4	36.4	11	5	ABB46282	Abb46282	Desmoglei
40	4	36.4	11	5	ABB46475	Abb46475	Desmoglei
41	4	36.4	11	5	ABB46220	Abb46220	Desmoglei
42	4	36.4	11	5	ABB46517	Abb46517	Desmoglei
43	4	36.4	11	5	ABB46547	Abb46547	Desmoglei
44	4	36.4	11	5	ABB46566	Abb46566	Desmoglei
45	4	36.4	11	5	ABB46192	Abb46192	Desmoglei
46	4	36.4	11	5	ABB46219	Abb46219	Desmoglei
47	4	36.4	11	5	ABB46493	Abb46493	Desmoglei
48	4	36.4	11	5	ABB46541	Abb46541	Desmoglei
49	4	36.4	11	5	ABB46275	Abb46275	Desmoglei
50	4	36.4	11	5	ABB46565	Abb46565	Desmoglei
51	4	36.4	11	5	ABB46226	Abb46226	Desmoglei
52	4	36.4	11	5	ABB46255	Abb46255	Desmoglei
53	4	36.4	11	5	ABB46304	Abb46304	Desmoglei
54	4	36.4	11	5	ABB46498	Abb46498	Desmoglei
55	4	36.4	11	5	ABB46199	Abb46199	Desmoglei
56	4	36.4	11	5	ABB46254	Abb46254	Desmoglei
57	4	36.4	11	6	ABP60263	Abp60263	Synthetic
58	3	27.3	11	1	AAP71100	Aap71100	Functiona
59	3	27.3	11	2	AAR08091	Aar08091	Antifreez
60	3	27.3	11	2	AAR25537	Aar25537	N-terminu
61	3	27.3	11	2	AAR24938	Aar24938	Influenza
62	3	27.3	11	2	AAR37230	Aar37230	IL-6 anta
63	3	27.3	11	2	AAR36924	Aar36924	Insulin-l
64	3	27.3	11	2	AAR41014	Aar41014	Influenza
65	3	27.3	11	2	AAR34249	Aar34249	Mutant HT
66	3	27.3	11	2	AAR38406	Aar38406	Radiodiag

67	3	27.3	11	2	AAR61960	Aar61960 MBP pepti
68	3	27.3	11	2	AAR57428	Aar57428 Rabphilin
69	3	27.3	11	2	AAR49995	Aar49995 Mouse OSF
70	3	27.3	11	2	AAR49069	Aar49069 Infectiou
71	3	27.3	11	2	AAR49117	Aar49117 Sequence
72	3	27.3	11	2	AAR49119	Aar49119 Sequence
73	3	27.3	11	2	AAR49067	Aar49067 Infectiou
74	3	27.3	11	2	AAR52710	Aar52710 Enkephali
75	3	27.3	11	2	AAR71315	Aar71315 GPV K5/6
76	3	27.3	11	2	AAR90710	Aar90710 Active pe
77	3	27.3	11	2	AAW00844	Aaw00844 PERB11-4D
78	3	27.3	11	2	AAR89376	Aar89376 p53 deriv
79	3	27.3	11	2	AAW44216	Aaw44216 Human sol
80	3	27.3	11	2	AAW29281	Aaw29281 Human H-Y
81	3	27.3	11	2	AAW36595	Aaw36595 MAGE-2 pe
82	3	27.3	11	2	AAW33181	Aaw33181 Mono-DTPA
83	3	27.3	11	2	AAW44189	Aaw44189 H-2Kd-res
84	3	27.3	11	2	AAW33770	Aaw33770 Human RAG
85	3	27.3	11	2	AAW22688	Aay22688 Neurokini
86	3	27.3	11	2	AAW13608	Aaw13608 HLA-B7 re
87	3	27.3	11	2	AAW35885	Aaw35885 Complemen
88	3	27.3	11	2	AAW35528	Aaw35528 Myelin ol
89	3	27.3	11	2	AAW70197	Aaw70197 N-termina
90	3	27.3	11	2	AAW62151	Aaw62151 Haemophil
91	3	27.3	11	2	AAW46009	Aaw46009 Peptide #
92	3	27.3	11	2	AAW20909	Aay20909 Human pre
93	3	27.3	11	2	AAW69200	Aaw69200 Nucleic a
94	3	27.3	11	2	AAW79544	Aaw79544 Adenoviru
95	3	27.3	11	2	AAW68312	Aaw68312 MHC bindi
96	3	27.3	11	2	AAW30509	Aaw30509 DP-1 tran
97	3	27.3	11	2	AAW79402	Aaw79402 Staphyloc
98	3	27.3	11	2	AAW63051	Aaw63051 Influenza
99	3	27.3	11	2	AAW47936	Aaw47936 AE101 ana
100	3	27.3	11	2	AAW52870	Aaw52870 Nucleic a

#### ALIGNMENTS

##### RESULT 1

AAW88529

ID AAW88529 standard; peptide; 11 AA.

XX

AC AAW88529;

XX

DT 07-AUG-2000 (first entry)

XX

DE NCAM Igl binding peptide D4.

XX

KW NCAM; neural cell adhesion molecule; Igl; immunoglobulin domain 1;

KW neurite outgrowth promoter; proliferation; nerve damage; sclerosis;

KW impaired myelination; stroke; Parkinson's disease; memory; schizophrenia;

KW Alzheimer's disease; diabetes mellitus; circadian clock; nephrosis;

KW treatment; prosthetic nerve guide; treatment; nervous system.

XX

OS Synthetic.

XX

PN WO200018801-A2.  
XX  
PD 06-APR-2000.  
XX  
PF 23-SEP-1999; 99WO-DK000500.  
XX  
PR 29-SEP-1998; 98DK-00001232.  
PR 29-APR-1999; 99DK-00000592.  
XX  
PA (RONN/) RONN L C B.  
PA (BOCK/) BOCK E.  
PA (HOLM/) HOLM A.  
PA (OLSE/) OLSEN M.  
PA (OSTE/) OSTERGAARD S.  
PA (JENS/) JENSEN P H.  
PA (POUL/) POULSEN F M.  
PA (SORO/) SOROKA V.  
PA (RALE/) RALETS I.  
PA (BERE/) BEREZIN V.  
XX  
PI Ronn LCB, Bock E, Holm A, Olsen M, Ostergaard S, Jensen PH;  
PI Poulsen FM, Soroka V, Ralets I, Berezin V;  
XX  
DR WPI; 2000-293111/25.  
XX  
PT Compositions that bind neural cell adhesion molecules useful for treating  
PT disorders of the nervous system and muscles e.g. Alzheimer's and  
PT Parkinson's diseases.  
XX  
PS Claim 20; Page 82; 119pp; English.  
XX  
CC Neural cell adhesion molecule (NCAM) is a cellular adhesion molecule.  
CC NCAM is found in three forms, two of which are transmembrane forms, while  
CC the third is attached via a lipid anchor to the cell membrane. All three  
CC NCAM forms have an extracellular structure consisting five immunoglobulin  
CC domains (Ig domains). The Ig domains are numbered 1 to 5 from the N-  
CC terminal. The present sequence represents a peptide which binds to the  
CC NCAM Ig1 domain. The peptide can be used in a compound which binds to  
CC NCAM-Ig1/Ig2 domains, and is capable of stimulating or promoting neurite  
CC outgrowth from NCAM presenting cells, and is also capable of promoting  
CC the proliferation of NCAM presenting cells. The compound may be used in  
CC the treatment of normal, degenerated or damaged NCAM presenting cells.  
CC The compound may in particular be used to treat diseases of the central  
CC and peripheral nervous systems such as post operative nerve damage,  
CC traumatic nerve damage, impaired myelination of nerve fibres, conditions  
CC resulting from a stroke, Parkinson's disease, Alzheimer's disease,  
CC dementias, sclerosis, nerve degeneration associated with diabetes  
CC mellitus, disorders affecting the circadian clock or neuro-muscular  
CC transmission and schizophrenia. Conditions affecting the muscles may also  
CC be treated with the compound, such as conditions associated with impaired  
CC function of neuromuscular connections (e.g. genetic or traumatic shock or  
CC traumatic atrophic muscle disorders). Conditions of the gonads, pancreas  
CC (e.g. diabetes mellitus types I and II), kidney (e.g. nephrosis), heart,  
CC liver and bowel may also be treated using the compound. The compound is  
CC used in a prosthetic nerve guide, and also to stimulate the ability to  
CC learn, and to stimulate the memory of a subject  
XX



SQ Sequence 11 AA;

Query Match 100.0%; Score 11; DB 3; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.1e-05;  
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARALNWGAKPK 11  
| | | | | | | | | |  
Db 1 ARALNWGAKPK 11

RESULT 2

AAY88563

ID AAY88563 standard; peptide; 11 AA.

XX

AC AAY88563;

XX

DT 07-AUG-2000 (first entry)

XX

DE NCAM Igl binding peptide D4 used as a control peptide.

XX

KW NCAM; neural cell adhesion molecule; Igl; immunoglobulin domain 1;

KW neurite outgrowth promoter; proliferation; nerve damage; sclerosis;

KW impaired myelination; stroke; Parkinson's disease; memory; schizophrenia;

KW Alzheimer's disease; diabetes mellitus; circadian clock; nephrosis;

KW treatment; prosthetic nerve guide; treatment; nervous system.

XX

OS Synthetic.

XX

PN WO200018801-A2.

XX

PD 06-APR-2000.

XX

PF 23-SEP-1999; 99WO-DK000500.

XX

PR 29-SEP-1998; 98DK-00001232.

PR 29-APR-1999; 99DK-00000592.

XX

PA (RONN/) RONN L C B.

PA (BOCK/) BOCK E.

PA (HOLM/) HOLM A.

PA (OLSE/) OLSEN M.

PA (OSTE/) OSTERGAARD S.

PA (JENS/) JENSEN P H.

PA (POUL/) POULSEN F M.

PA (SORO/) SOROKA V.

PA (RALE/) RALETS I.

PA (BERE/) BEREZIN V.

XX

PI Ronn LCB, Bock E, Holm A, Olsen M, Ostergaard S, Jensen PH;

PI Poulsen FM, Soroka V, Ralets I, Berezin V;

XX

DR WPI; 2000-293111/25.

XX

PT Compositions that bind neural cell adhesion molecules useful for treating

PT disorders of the nervous system and muscles e.g. Alzheimer's and

PT Parkinson's diseases.

XX

PS Example 5; Fig 7; 119pp; English.

XX

CC Neural cell adhesion molecule (NCAM) is a cellular adhesion molecule.  
CC NCAM is found in three forms, two of which are transmembrane forms, while  
CC the third is attached via a lipid anchor to the cell membrane. All three  
CC NCAM forms have an extracellular structure consisting five immunoglobulin  
CC domains (Ig domains). The Ig domains are numbered 1 to 5 from the N-  
CC terminal. The invention relates to a compound containing a peptide which  
CC binds to the NCAM Ig1 domain. The compound binds to NCAM-Ig1/Ig2 domains,  
CC and is capable of stimulating or promoting neurite outgrowth from NCAM  
CC presenting cells, and is also capable of promoting the proliferation of  
CC NCAM presenting cells. The present sequence represents a control peptide  
CC used in the identification of those binding peptides which can be used in  
CC the compound. The compound may be used in the treatment of normal,  
CC degenerated or damaged NCAM presenting cells. The compound may in  
CC particular be used to treat diseases of the central and peripheral  
CC nervous systems such as post operative nerve damage, traumatic nerve  
CC damage, impaired myelination of nerve fibres, conditions resulting from a  
CC stroke, Parkinson's disease, Alzheimer's disease, dementias, sclerosis,  
CC nerve degeneration associated with diabetes mellitus, disorders affecting  
CC the circadian clock or neuro-muscular transmission and schizophrenia.  
CC Conditions affecting the muscles may also be treated with the compound,  
CC such as conditions associated with impaired function of neuromuscular  
CC connections (e.g. genetic or traumatic shock or traumatic atrophic muscle  
CC disorders). Conditions of the gonads, pancreas (e.g. diabetes mellitus  
CC types I and II), kidney (e.g. nephrosis), heart, liver and bowel may also  
CC be treated using the compound. The compound is used in a prosthetic nerve  
CC guide, and also to stimulate the ability to learn, and to stimulate the  
CC memory of a subject

XX

SQ Sequence 11 AA;

Query Match 100.0%; Score 11; DB 3; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.1e-05;  
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARALNWKAKPK 11  
| | | | | | | | | |  
Db 1 ARALNWKAKPK 11

RESULT 3

ABG69331

ID ABG69331 standard; peptide; 11 AA.

XX

AC ABG69331;

XX

DT 21-OCT-2002 (first entry)

XX

DE Human neural cell adhesion molecule (NCAM) peptide #3.

XX

KW Human; neural cell adhesion molecule; NCAM; heart muscle cell survival;  
KW acute myocardial infarction; central nervous system disorder; stroke;  
KW peripheral nervous system disorder; postoperative nerve damage;  
KW traumatic nerve damage; spinal cord injury; nerve fibre; schizophrenia;  
KW postischaemic damage; multiinfarct dementia; multiple sclerosis;

KW nerve degeneration; diabetes mellitus; neuro-muscular degeneration;  
 KW Alzheimer's disease; Parkinson's disease;  
 KW Huntington's disease. atrophic muscle disorder; gonad degeneration;  
 KW nephrosis.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200247719-A2.  
 XX  
 PD 20-JUN-2002.  
 XX  
 PF 12-DEC-2001; 2001WO-DK000822.  
 XX  
 PR 12-DEC-2000; 2000DK-00001863.  
 XX  
 PA (ENKA-) ENKAM PHARM AS.  
 XX  
 PI Bock E, Berezin V, Kohler LB;  
 XX  
 DR WPI; 2002-583473/62.  
 XX  
 PT Use of a compound comprising a peptide of neural cell adhesion molecule,  
 PT in the preparation of medicament for preventing death of cells presenting  
 PT NCAM or NCAM ligand and treating central nervous system diseases.  
 XX  
 PS Claim 26; Page 39; 57pp; English.  
 XX  
 CC The invention relates to use of a compound (I) comprising a peptide which  
 CC comprises at least 5 contiguous amino acid residues of a sequence of the  
 CC neural cell adhesion molecule (NCAM), its fragment, variant or its mimic,  
 CC for the preparation of a medicament for preventing death of cells  
 CC presenting the NCAM or an NCAM ligand. (I) is useful in the preparation  
 CC of a medicament for preventing death of cells presenting the NCAM or an  
 CC NCAM ligand. The medicament is for the stimulation of the survival of  
 CC heart muscle cells, such as survival after acute myocardial infarction.  
 CC The medicament is for the treatment of diseases or conditions of the  
 CC central and peripheral nervous system, such as postoperative nerve  
 CC damage, traumatic nerve damage, e.g. resulting from spinal cord injury,  
 CC impaired myelination of nerve fibres, postischaemic damage, e.g.  
 CC resulting from a stroke, multiinfarct dementia, multiple sclerosis, nerve  
 CC degeneration associated with diabetes mellitus, neuro-muscular  
 CC degeneration, schizophrenia, Alzheimer's disease, Parkinson's disease and  
 CC Huntington's disease. The medicament is for the treatment of diseases or  
 CC conditions of the muscles including conditions with impaired function of  
 CC neuro-muscular connections, such as genetic or traumatic atrophic muscle  
 CC disorders, and for the treatment of diseases of conditions of various  
 CC organs, such as degenerative conditions of the gonads, pancreas (e.g.  
 CC diabetes mellitus type I and II) and kidney (e.g. nephrosis). ABG69329-  
 CC ABG69352 represent human NCAM peptides of the invention  
 XX  
 SQ Sequence 11 AA;

Query Match 100.0%; Score 11; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.1e-05;  
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARALNWGAKPK 11

Db                    |||||  
1 ARALNWGAKPK 11

RESULT 4

AAR55834

ID    AAR55834 standard; protein; 11 AA.

XX

AC    AAR55834;

XX

DT    25-MAR-2003    (revised)

DT    09-SEP-1994    (first entry)

XX

DE    Meningococcal OMP P1.7 epitope.

XX

KW    Neisseria meningitidis; meningococcus; outer membrane protein; OMP;

KW    outer membrane vesicle; lipopolysaccharide; vaccine.

XX

OS    Synthetic.

XX

PN    WO9408021-A1.

XX

PD    14-APR-1994.

XX

PF    30-JUL-1993;    93WO-NL000163.

XX

PR    02-OCT-1992;    92NL-00001716.

XX

PA    (NEWE-) NEDERLANDEN MIN WELZIJN.

XX

PI    Van Der Ley PA,   Poolman JT,   Hoogerhout P;

XX

DR    WPI; 1994-135585/16.

DR    N-PSDB; AAQ62052.

XX

PT    New B cell activating molecules from meningococcal lipo:polysaccharide -  
PT    and derived peptide conjugates, outer membrane vesicles etc. useful in  
PT    vaccines effective against several meningococcal immunotypes.

XX

PS    Example; Page 25; 62pp; English.

XX

CC    An oligonucleotide with KpnI sticky ends (AAQ62052) encodes the P1.7  
CC    epitope of Neisseria meningitidis outer membrane protein (OMP). The 3'  
CC    end of the antisense strand overhangs the 5' end of the sense strand by 4  
CC    bases, and the 3' end of the sense strand overhangs the 5' end of the  
CC    antisense strand by 4 bases. Eptiopes encoded by the sense and antisense  
CC    strands are given in AAR51275 and AAR55834, respectively. The  
CC    oligonucleotide was placed in loop 6 of the class I OMP gene, providing a  
CC    new meningococcal strain with an extra epitope for use in vaccines.  
CC    (Updated on 25-MAR-2003 to correct PN field.)

XX

SQ    Sequence 11 AA;

Query Match                    36.4%;    Score 4;    DB 2;    Length 11;

Best Local Similarity    100.0%;    Pred. No. 8.8e+02;

Matches    4;    Conservative    0;    Mismatches    0;    Indels    0;    Gaps    0;

QY 2 RALN 5  
||||  
Db 5 RALN 8

RESULT 5

AAW34129

ID AAW34129 standard; peptide; 11 AA.

XX

AC AAW34129;

XX

DT 14-MAY-1998 (first entry)

XX

DE LFA-1 beta subunit based peptide cLBE-R.

XX

KW ICAM-1; intracellular adhesion molecule-1; inhibitor; integrin binding;

KW lymphocyte fusion associated antigen-1; LFA-1; transplant rejection;

KW allergy; autoimmune disease; rheumatoid arthritis; multiple sclerosis;

KW insulin-dependent diabetes mellitus; therapy; beta subunit; cyclic.

XX

OS Synthetic.

OS Homo sapiens.

XX

FH Key Location/Qualifiers

FT Disulfide-bond 1. .12

FT /note= "form disulphide bond to create cyclic peptide"

FT Modified-site 1

FT /note= "penicillamine"

XX

PN WO9741149-A1.

XX

PD 06-NOV-1997.

XX

PF 24-APR-1997; 97WO-US006799.

XX

PR 26-APR-1996; 96US-0057848P.

PR 26-APR-1996; 96US-00638437.

PR 23-APR-1997; 97US-00844978.

XX

PA (UNIV ) UNIV KANSAS.

XX

PI Benedict S, Siahaan TJ, Chan MA, Tibbetts SA;

XX

DR WPI; 1997-549680/50.

XX

PT Composition of peptide(s) that inhibit binding between proteins - used  
PT for treatment of transplant rejection, auto:immune disease and allergy.

XX

PS Claim 8; Page 27; 50pp; English.

XX

CC This sequence represents a cyclic peptide fragment of the beta subunit of  
CC lymphocyte fusion associated antigen-1 (LFA-1). This sequence, or a  
CC fragment intracellular adhesion molecule-1 (ICAM-1), can be used in the  
CC peptide composition (A) of the invention, which inhibits the binding of  
CC first and second proteins (P1, P2) and comprises at least one peptide  
CC that binds to P1 and at least one peptide that binds to P2. (A) is used,  
CC in vivo or in vitro, to inhibit binding of integrins to their specific

CC binding proteins, particularly for treating transplant rejection, allergy  
CC and autoimmune disease, specifically rheumatoid arthritis, insulin-  
CC dependent diabetes mellitus and multiple sclerosis  
XX  
SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
    ||||  
Db 6 RALN 9

RESULT 6

AAW34126

ID AAW34126 standard; peptide; 11 AA.

XX

AC AAW34126;

XX

DT 14-MAY-1998 (first entry)

XX

DE LFA-1 beta subunit based peptide LBE-R.

XX

KW ICAM-1; intracellular adhesion molecule-1; inhibitor; integrin binding;

KW lymphocyte fusion associated antigen-1; LFA-1; transplant rejection;

KW allergy; autoimmune disease; rheumatoid arthritis; multiple sclerosis;

KW insulin-dependent diabetes mellitus; therapy; beta subunit.

XX

OS Synthetic.

OS Homo sapiens.

XX

FH Key Location/Qualifiers

FT Modified-site 1

FT /note= "penicillamine"

XX

PN WO9741149-A1.

XX

PD 06-NOV-1997.

XX

PF 24-APR-1997; 97WO-US006799.

XX

PR 26-APR-1996; 96US-0057848P.

PR 26-APR-1996; 96US-00638437.

PR 23-APR-1997; 97US-00844978.

XX

PA (UNIV ) UNIV KANSAS.

XX

PI Benedict S, Siahaan TJ, Chan MA, Tibbetts SA;

XX

DR WPI; 1997-549680/50.

XX

PT Composition of peptide(s) that inhibit binding between proteins - used

PT for treatment of transplant rejection, auto:immune disease and allergy.

XX

PS Claim 8; Page 26; 50pp; English.

XX  
CC This sequence represents a peptide fragment of the beta subunit of  
CC lymphocyte fusion associated antigen-1 (LFA-1). This sequence, or a  
CC fragment intracellular adhesion molecule-1 (ICAM-1), can be used in the  
CC peptide composition (A) of the invention, which inhibits the binding of  
CC first and second proteins (P1, P2) and comprises at least one peptide  
CC that binds to P1 and at least one peptide that binds to P2. (A) is used,  
CC in vivo or in vitro, to inhibit binding of integrins to their specific  
CC binding proteins, particularly for treating transplant rejection, allergy  
CC and autoimmune disease, specifically rheumatoid arthritis, insulin-  
CC dependent diabetes mellitus and multiple sclerosis  
XX  
SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
| | | |  
Db 6 RALN 9

# RESULT 7

AAW84064

ID AAW84064 standard; peptide; 11 AA.

XX

AC AAW84064;

XX

DT 15-MAR-1999 (first entry)

XX

DE Human V3 loop HIV receptor P60/nucleolin peptide (peak 19).

XX

KW HIV receptor; V3 loop; human immunodeficiency virus; retrovirus;

KW P60 protein; P95 protein; nucleolin; infection; therapy; diagnosis.

XX

OS Homo sapiens.

XX

PN WO9840480-A1.

XX

PD 17-SEP-1998.

XX

PF 12-MAR-1998; 98WO-EP001409.

XX

PR 12-MAR-1997; 97US-0040969P.

XX

PA (INSP ) INST PASTEUR.

PA (CNRS ) CENT NAT RECH SCI.

XX

PI Hovanessian A, Callebaut C, Krust B, Jacotot E, Muller S;

PI Briand J, Guichard G;

XX

DR WPI; 1999-034588/03.

XX

PT New isolated V3 loop HIV receptor - comprises P95/nucleolin, P40/PHAPII  
PT and P30/PHAPI proteins, used to develop products for the treatment and  
PT prevention of HIV infection.

XX  
 PS Example 9; Page 160; 267pp; English.  
 XX  
 CC This peptide was isolated from the novel V3 loop HIV receptor P60 protein  
 CC by endo-lysine-C digestion. Sequencing revealed identity with amino acids  
 CC 635-644 of human nucleolin. The V3 loop HIV receptor, identified as a  
 CC cell surface receptor on e.g. CD4+ T cell line CEM, consists of an  
 CC association of 3 proteins, named P95, P40 and P30 (see AAW84052-54), that  
 CC are implicated as cofactors in the process of HIV entry into cells.  
 CC Microsequencing of endo-lysine-C- generated peptides showed these 3  
 CC proteins to be nucleolin, PHAPI and PHAPII, respectively. P60 is a  
 CC partial degradation product of P95. The invention provides methods,  
 CC products and compositions for the treatment, diagnosis and prevention of  
 CC HIV infection  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AKPK 11  
 ||||  
 Db 7 AKPK 10

RESULT 8  
 AAW74320

ID AAW74320 standard; peptide; 11 AA.

XX

AC AAW74320;

XX

DT 05-MAY-1999 (first entry)

XX

DE HJ loop peptide K077H102.

XX

KW HJ loop; serine/threonine kinase; cancer; diabetes; obesity; therapy;  
 KW haemorrhagic shock; cardiovascular disease; immunosuppressive disorder;  
 KW inflammatory disorder; central nervous system disease; septic shock;  
 KW Parkinson's disease; hypertension.

XX

OS Synthetic.

XX

FH	Key	Location/Qualifiers
FT	Modified-site	1
FT		/note= "Myristyl-Gly"
FT	Modified-site	11
FT		/note= "amidated"

XX

PN W09853051-A1.

XX

PD 26-NOV-1998.

XX

PF 20-MAY-1998; 98WO-US010321.

XX

PR 21-MAY-1997; 97US-00861153.

XX



PA (CHIL-) CHILDRENS MEDICAL CENT.

XX

PI Ben-Sasson SA;

XX

DR WPI; 1999-070143/06.

XX

PT New peptide derivatives for modulating protein tyrosine kinase activity -

PT comprise a sequence corresponding to the HJ loop of a protein tyrosine

PT kinase, used for treating cancers or immune disorders.

XX

PS Disclosure; Fig 7; 79pp; English.

XX

CC This sequence represents a peptide of the invention, and is a derivative

CC of the HJ loop of a serine/threonine kinase (STK). The peptides can be

CC used for the treatment of disorders caused by overactivity or

CC underactivity of a STK, e.g. cancer, diabetes, obesity, haemorrhagic

CC shock, cardiovascular diseases (e.g. thrombosis, atherosclerosis,

CC arteriosclerosis, cardiac hyper trophy, ischaemia, reperfusion injury and

CC hypertension), immunosuppressive and inflammatory disorders (e.g. asthma,

CC psoriasis, systemic lupus erythematosus, diabetes mellitus, suppression

CC of organ transplant rejection, multiple sclerosis, inflammatory bowel

CC disease and AIDS), central nervous system diseases (e.g. Alzheimer's

CC disease, stroke and trauma), septic shock, Parkinson's disease or

CC hypertension. The peptides can also be used to produce antibodies which

CC can be used to identify cells expressing the STK and to study the

CC intracellular distribution of the STK. In addition, the peptides can be

CC used to identify and quantitate ligands which bind the HJ loop of the STK

CC from which the peptide was derived

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 2; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.8e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 GAKP 10

||||

Db 6 GAKP 9

RESULT 9

AAJ01280

ID AAJ01280 standard; peptide; 11 AA.

XX

AC AAJ01280;

XX

DT 02-JUL-2001 (first entry)

XX

DE Hepatitis C virus epitope #1271.

XX

KW Hepatitis C virus; HCV; epitope; vaccine; immunogen; HLA-binding motif;  
KW antiviral.

XX

OS Hepatitis C virus.

XX

PN WO200121189-A1.

XX

PD 29-MAR-2001.  
 XX  
 PF 19-JUL-2000; 2000WO-US019774.  
 XX  
 PR 19-JUL-1999; 99US-00357737.  
 XX  
 PA (EPIM-) EPIMMUNE INC.  
 XX  
 PI Sette A, Sidney J, Southwood S, Livingston BD, Chesnut R;  
 PI Baker DM, Celis E, Kubo RT, Grey HM;  
 XX  
 DR WPI; 2001-308046/32.  
 XX  
 PT A new composition useful as a vaccines against hepatitis C virus.  
 XX  
 PS Disclosure; Page 132; 214pp; English.  
 XX  
 CC The present invention describes a composition comprising a prepared  
 CC hepatitis C virus (HCV) epitope such as those given in AAJ00010-AAJ04121.  
 CC These are derived from HCV HLA-binding motifs. They are useful in  
 CC vaccines for the prevention and treatment of HCV infection in humans. The  
 CC present sequence is an epitope used in the disclosure of the invention  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 4; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARAL 4  
 ||||  
 Db 1 ARAL 4

# RESULT 10

AAJ00171  
 ID AAJ00171 standard; peptide; 11 AA.  
 XX  
 AC AAJ00171;  
 XX  
 DT 02-JUL-2001 (first entry)  
 XX  
 DE Hepatitis C virus epitope #162.  
 XX  
 KW Hepatitis C virus; HCV; epitope; vaccine; immunogen; HLA-binding motif;  
 KW antiviral.  
 XX  
 OS Hepatitis C virus.  
 XX  
 PN WO200121189-A1.  
 XX  
 PD 29-MAR-2001.  
 XX  
 PF 19-JUL-2000; 2000WO-US019774.  
 XX  
 PR 19-JUL-1999; 99US-00357737.  
 XX

PA (EPIM-) EPIMMUNE INC.  
XX  
PI Sette A, Sidney J, Southwood S, Livingston BD, Chesnut R;  
PI Baker DM, Celis E, Kubo RT, Grey HM;  
XX  
DR WPI; 2001-308046/32.  
XX  
PT A new composition useful as a vaccines against hepatitis C virus.  
XX  
PS Disclosure; Page 105; 214pp; English.  
XX  
CC The present invention describes a composition comprising a prepared  
CC hepatitis C virus (HCV) epitope such as those given in AAJ00010-AAJ04121.  
CC These are derived from HCV HLA-binding motifs. They are useful in  
CC vaccines for the prevention and treatment of HCV infection in humans. The  
CC present sequence is an epitope used in the disclosure of the invention  
XX  
SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARAL 4  
|||  
Db 2 ARAL 5

RESULT 11

AAJ00737

ID AAJ00737 standard; peptide; 11 AA.

XX

AC AAJ00737;

XX

DT 02-JUL-2001 (first entry)

XX

DE Hepatitis C virus epitope #728.

XX

KW Hepatitis C virus; HCV; epitope; vaccine; immunogen; HLA-binding motif;  
KW antiviral.

XX

OS Hepatitis C virus.

XX

PN WO200121189-A1.

XX

PD 29-MAR-2001.

XX

PF 19-JUL-2000; 2000WO-US019774.

XX

PR 19-JUL-1999; 99US-00357737.

XX

PA (EPIM-) EPIMMUNE INC.

XX

PI Sette A, Sidney J, Southwood S, Livingston BD, Chesnut R;

PI Baker DM, Celis E, Kubo RT, Grey HM;

XX

DR WPI; 2001-308046/32.

XX  
PT A new composition useful as a vaccines against hepatitis C virus.  
XX  
PS Disclosure; Page 119; 214pp; English.  
XX  
CC The present invention describes a composition comprising a prepared  
CC hepatitis C virus (HCV) epitope such as those given in AAJ00010-AAJ04121.  
CC These are derived from HCV HLA-binding motifs. They are useful in  
CC vaccines for the prevention and treatment of HCV infection in humans. The  
CC present sequence is an epitope used in the disclosure of the invention  
XX  
SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARAL 4  
    ||||  
Db 3 ARAL 6

RESULT 12

AAJ01538

ID AAJ01538 standard; peptide; 11 AA.

XX

AC AAJ01538;

XX

DT 02-JUL-2001 (first entry)

XX

DE Hepatitis C virus epitope #1529.

XX

KW Hepatitis C virus; HCV; epitope; vaccine; immunogen; HLA-binding motif;  
KW antiviral.

XX

OS Hepatitis C virus.

XX

PN WO200121189-A1.

XX

PD 29-MAR-2001.

XX

PF 19-JUL-2000; 2000WO-US019774.

XX

PR 19-JUL-1999; 99US-00357737.

XX

PA (EPIM-) EPIMMUNE INC.

XX

PI Sette A, Sidney J, Southwood S, Livingston BD, Chesnut R;  
PI Baker DM, Celis E, Kubo RT, Grey HM;

XX

DR WPI; 2001-308046/32.

XX

PT A new composition useful as a vaccines against hepatitis C virus.

XX

PS Disclosure; Page 139; 214pp; English.

XX

CC The present invention describes a composition comprising a prepared

CC hepatitis C virus (HCV) epitope such as those given in AAJ00010-AAJ04121.  
CC These are derived from HCV HLA-binding motifs. They are useful in  
CC vaccines for the prevention and treatment of HCV infection in humans. The  
CC present sequence is an epitope used in the disclosure of the invention  
XX  
SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARAL 4  
    ||||  
Db 2 ARAL 5

RESULT 13

AAJ02159

ID AAJ02159 standard; peptide; 11 AA.

XX

AC AAJ02159;

XX

DT 02-JUL-2001 (first entry)

XX

DE Hepatitis C virus epitope #2150.

XX

KW Hepatitis C virus; HCV; epitope; vaccine; immunogen; HLA-binding motif;  
KW antiviral.

XX

OS Hepatitis C virus.

XX

PN WO200121189-A1.

XX

PD 29-MAR-2001.

XX

PF 19-JUL-2000; 2000WO-US019774.

XX

PR 19-JUL-1999; 99US-00357737.

XX

PA (EPIM-) EPIMMUNE INC.

XX

PI Sette A, Sidney J, Southwood S, Livingston BD, Chesnut R;  
PI Baker DM, Celis E, Kubo RT, Grey HM;

XX

DR WPI; 2001-308046/32.

XX

PT A new composition useful as a vaccines against hepatitis C virus.

XX

PS Disclosure; Page 154; 214pp; English.

XX

CC The present invention describes a composition comprising a prepared  
CC hepatitis C virus (HCV) epitope such as those given in AAJ00010-AAJ04121.  
CC These are derived from HCV HLA-binding motifs. They are useful in  
CC vaccines for the prevention and treatment of HCV infection in humans. The  
CC present sequence is an epitope used in the disclosure of the invention  
XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARAL 4  
||||  
Db 3 ARAL 6

RESULT 14

AAJ02672

ID AAJ02672 standard; peptide; 11 AA.

XX

AC AAJ02672;

XX

DT 02-JUL-2001 (first entry)

XX

DE Hepatitis C virus epitope #2663.

XX

KW Hepatitis C virus; HCV; epitope; vaccine; immunogen; HLA-binding motif;  
KW antiviral.

XX

OS Hepatitis C virus.

XX

PN WO200121189-A1.

XX

PD 29-MAR-2001.

XX

PF 19-JUL-2000; 2000WO-US019774.

XX

PR 19-JUL-1999; 99US-00357737.

XX

PA (EPIM-) EPIMMUNE INC.

XX

PI Sette A, Sidney J, Southwood S, Livingston BD, Chesnut R;

PI Baker DM, Celis E, Kubo RT, Grey HM;

XX

DR WPI; 2001-308046/32.

XX

PT A new composition useful as a vaccines against hepatitis C virus.

XX

PS Disclosure; Page 166; 214pp; English.

XX

CC The present invention describes a composition comprising a prepared  
CC hepatitis C virus (HCV) epitope such as those given in AAJ00010-AAJ04121.  
CC These are derived from HCV HLA-binding motifs. They are useful in  
CC vaccines for the prevention and treatment of HCV infection in humans. The  
CC present sequence is an epitope used in the disclosure of the invention

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARAL 4

Db               |||||  
                  3 ARAL 6

RESULT 15

AAJ02807

ID   AAJ02807 standard; peptide; 11 AA.

XX

AC   AAJ02807;

XX

DT   02-JUL-2001   (first entry)

XX

DE   Hepatitis C virus epitope #2798.

XX

KW   Hepatitis C virus; HCV; epitope; vaccine; immunogen; HLA-binding motif;  
KW   antiviral.

XX

OS   Hepatitis C virus.

XX

PN   WO200121189-A1.

XX

PD   29-MAR-2001.

XX

PF   19-JUL-2000; 2000WO-US019774.

XX

PR   19-JUL-1999;   99US-00357737.

XX

PA   (EPIM-) EPIMMUNE INC.

XX

PI   Sette A,   Sidney J,   Southwood S,   Livingston BD,   Chesnut R;

PI   Baker DM,   Celis E,   Kubo RT,   Grey HM;

XX

DR   WPI; 2001-308046/32.

XX

PT   A new composition useful as a vaccines against hepatitis C virus.

XX

PS   Disclosure; Page 169; 214pp; English.

XX

CC   The present invention describes a composition comprising a prepared  
CC   hepatitis C virus (HCV) epitope such as those given in AAJ00010-AAJ04121.  
CC   These are derived from HCV HLA-binding motifs. They are useful in  
CC   vaccines for the prevention and treatment of HCV infection in humans. The  
CC   present sequence is an epitope used in the disclosure of the invention

XX

SQ   Sequence 11 AA;

Query Match                   36.4%;   Score 4;   DB 4;   Length 11;

Best Local Similarity   100.0%;   Pred. No. 8.8e+02;

Matches       4;   Conservative       0;   Mismatches       0;   Indels       0;   Gaps       0;

Qy               1 ARAL 4

|||||

Db               6 ARAL 9

RESULT 16

AAJ02404

ID AAJ02404 standard; peptide; 11 AA.  
 XX  
 AC AAJ02404;  
 XX  
 DT 02-JUL-2001 (first entry)  
 XX  
 DE Hepatitis C virus epitope #2395.  
 XX  
 KW Hepatitis C virus; HCV; epitope; vaccine; immunogen; HLA-binding motif;  
 KW antiviral.  
 XX  
 OS Hepatitis C virus.  
 XX  
 PN WO200121189-A1.  
 XX  
 PD 29-MAR-2001.  
 XX  
 PF 19-JUL-2000; 2000WO-US019774.  
 XX  
 PR 19-JUL-1999; 99US-00357737.  
 XX  
 PA (EPIM-) EPIMMUNE INC.  
 XX  
 PI Sette A, Sidney J, Southwood S, Livingston BD, Chesnut R;  
 PI Baker DM, Celis E, Kubo RT, Grey HM;  
 XX  
 DR WPI; 2001-308046/32.  
 XX  
 PT A new composition useful as a vaccines against hepatitis C virus.  
 XX  
 PS Disclosure; Page 159; 214pp; English.  
 XX  
 CC The present invention describes a composition comprising a prepared  
 CC hepatitis C virus (HCV) epitope such as those given in AAJ00010-AAJ04121.  
 CC These are derived from HCV HLA-binding motifs. They are useful in  
 CC vaccines for the prevention and treatment of HCV infection in humans. The  
 CC present sequence is an epitope used in the disclosure of the invention  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 4; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARAL 4  
 ||||  
 Db 6 ARAL 9

RESULT 17  
 ABB46474  
 ID ABB46474 standard; peptide; 11 AA.  
 XX  
 AC ABB46474;  
 XX  
 DT 30-JAN-2002 (first entry)  
 XX



DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1218.  
 XX  
 KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
 KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
 KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200172956-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.  
 XX  
 PR 27-MAR-2000; 2000US-00535852.  
 XX  
 PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
 XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 102; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 5 RALN 8

RESULT 18  
 ABB46499  
 ID ABB46499 standard; peptide; 11 AA.  
 XX

AC ABB46499;  
 XX  
 DT 30-JAN-2002 (first entry)  
 XX  
 DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1243.  
 XX  
 KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
 KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
 KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200172956-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.  
 XX  
 PR 27-MAR-2000; 2000US-00535852.  
 XX  
 PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
 XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 102; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 5 RALN 8

RESULT 19

ABB46518

ID ABB46518 standard; peptide; 11 AA.

XX

AC ABB46518;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1262.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 102; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.8e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy

2 RALN 5

Db                    ||||  
                      4 RALN 7

RESULT 20

ABB46523

ID    ABB46523 standard; peptide; 11 AA.

XX

AC    ABB46523;

XX

DT    30-JAN-2002    (first entry)

XX

DE    Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1267.

XX

KW    Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW    cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW    organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS    Synthetic.

XX

PN    WO200172956-A2.

XX

PD    04-OCT-2001.

XX

PF    27-MAR-2001; 2001WO-IB001400.

XX

PR    27-MAR-2000; 2000US-00535852.

XX

PA    (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI    Blaschuk OW,   Symonds JM,   Gour BJ;

XX

DR    WPI; 2002-025778/03.

XX

PT    Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT    mediated cell adhesion, useful for facilitating wound healing and/or  
PT    reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS    Claim 18; Page 102; 127pp; English.

XX

CC    The invention relates to modulating agents for inhibiting or enhancing  
CC    desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC    comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC    (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC    sequence, a substance such as an antibody or antigen-binding fragment  
CC    that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC    polynucleotide encoding a polypeptide that comprises a desmosomal  
CC    cadherin CAR sequence or analogue. The modulating agents have  
CC    immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC    facilitate wound healing and/or reduce scar tissue, for enhancing  
CC    adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC    treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC    carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ    Sequence 11 AA;

Query Match

36.4%;    Score 4;    DB 5;    Length 11;

Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 5 RALN 8

RESULT 21

ABB46546

ID ABB46546 standard; peptide; 11 AA.

XX

AC ABB46546;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1290.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 102; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.8e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5

||||

Db 5 RALN 8

RESULT 22

ABB46191

ID ABB46191 standard; peptide; 11 AA.

XX

AC ABB46191;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 935.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;

KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;

KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin

PT mediated cell adhesion, useful for facilitating wound healing and/or

PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 100; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing

CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent

CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence

CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR

CC sequence, a substance such as an antibody or antigen-binding fragment

CC that specifically binds a desmosomal cadherin CAR sequence and/or a

CC polynucleotide encoding a polypeptide that comprises a desmosomal

CC cadherin CAR sequence or analogue. The modulating agents have

CC immunosuppressive, cytostatic and antiapoptotic activity and are used to

CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.8e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5

||||

Db 4 RALN 7

#### RESULT 23

ABB46227

ID ABB46227 standard; peptide; 11 AA.

XX

AC ABB46227;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 971.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 100; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment

CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.8e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5

||||

Db 4 RALN 7

#### RESULT 24

ABB46276

ID ABB46276 standard; peptide; 11 AA.

XX

AC ABB46276;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 1020.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 100; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing



CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
| | | |  
Db 4 RALN 7

RESULT 25

ABB46310

ID ABB46310 standard; peptide; 11 AA.

XX

AC ABB46310;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 1054.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX  
PS Claim 18; Page 101; 127pp; English.  
XX  
CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis  
XX  
SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
| | | |  
Db 4 RALN 7

#### RESULT 26

ABB46494

ID ABB46494 standard; peptide; 11 AA.

XX

AC ABB46494;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1238.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX  
PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.  
XX  
PS Claim 18; Page 102; 127pp; English.  
XX  
CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis  
XX  
SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
| | | |  
Db 4 RALN 7

RESULT 27  
ABB46283  
ID ABB46283 standard; peptide; 11 AA.  
XX  
AC ABB46283;  
XX  
DT 30-JAN-2002 (first entry)  
XX  
DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 1027.  
XX  
KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
XX  
OS Synthetic.  
XX  
PN WO200172956-A2.  
XX  
PD 04-OCT-2001.  
XX  
PF 27-MAR-2001; 2001WO-IB001400.  
XX  
PR 27-MAR-2000; 2000US-00535852.  
XX  
PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 100; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 4 RALN 7

RESULT 28  
 ABB46542  
 ID ABB46542 standard; peptide; 11 AA.  
 XX  
 AC ABB46542;  
 XX  
 DT 30-JAN-2002 (first entry)  
 XX  
 DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1286.  
 XX  
 KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
 KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
 KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200172956-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.

XX  
 PR 27-MAR-2000; 2000US-00535852.  
 XX  
 PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
 XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 102; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 4 RALN 7

RESULT 29  
 ABB46247  
 ID ABB46247 standard; peptide; 11 AA.  
 XX  
 AC ABB46247;  
 XX  
 DT 30-JAN-2002 (first entry)  
 XX  
 DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 991.  
 XX  
 KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
 KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
 KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200172956-A2.

XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.  
 XX  
 PR 27-MAR-2000; 2000US-00535852.  
 XX  
 PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
 XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 100; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 4 RALN 7

# RESULT 30

ABB46248

ID ABB46248 standard; peptide; 11 AA.

XX

AC ABB46248;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 992.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
 KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
 KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX  
 OS Synthetic.  
 XX  
 PN WO200172956-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.  
 XX  
 PR 27-MAR-2000; 2000US-00535852.  
 XX  
 PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
 XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 100; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 4 RALN 7

RESULT 31  
 ABB46570  
 ID ABB46570 standard; peptide; 11 AA.  
 XX  
 AC ABB46570;  
 XX  
 DT 30-JAN-2002 (first entry)  
 XX  
 DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1314.

XX  
 KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
 KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
 KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200172956-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.  
 XX  
 PR 27-MAR-2000; 2000US-00535852.  
 XX  
 PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
 XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 102; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 5 RALN 8

RESULT 32  
 ABB46522  
 ID ABB46522 standard; peptide; 11 AA.  
 XX  
 AC ABB46522;



XX  
 DT 30-JAN-2002 (first entry)  
 XX  
 DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1266.  
 XX  
 KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
 KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
 KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200172956-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.  
 XX  
 PR 27-MAR-2000; 2000US-00535852.  
 XX  
 PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
 XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 102; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 5 RALN 8

RESULT 33

ABB46198  
 ID ABB46198 standard; peptide; 11 AA.  
 XX  
 AC ABB46198;  
 XX  
 DT 30-JAN-2002 (first entry)  
 XX  
 DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 942.  
 XX  
 KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
 KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
 KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200172956-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.  
 XX  
 PR 27-MAR-2000; 2000US-00535852.  
 XX  
 PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
 XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 100; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||

## RESULT 34

ABB46311

ID ABB46311 standard; peptide; 11 AA.

XX

AC ABB46311;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 1055.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 101; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
    ||||  
Db 4 RALN 7

RESULT 35.

ABB46303

ID ABB46303 standard; peptide; 11 AA.

XX

AC ABB46303;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 1047.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 101; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 36

ABB46469

ID ABB46469 standard; peptide; 11 AA.

XX

AC ABB46469;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1213.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 102; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing

CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis  
XX  
SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
| | | |  
Db 4 RALN 7

RESULT 37

ABB46470

ID ABB46470 standard; peptide; 11 AA.

XX

AC ABB46470;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1214.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 102; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a

CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5

||||

Db 4 RALN 7

RESULT 38

ABB46571

ID ABB46571 standard; peptide; 11 AA.

XX

AC ABB46571;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1315.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 102; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent

CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis  
XX  
SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
| | | |  
Db 5 RALN 8

RESULT 39

ABB46282

ID ABB46282 standard; peptide; 11 AA.

XX

AC ABB46282;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 1026.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX



PS Claim 18; Page 100; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5

||||

Db 4 RALN 7

#### RESULT 40

ABB46475

ID ABB46475 standard; peptide; 11 AA.

XX

AC ABB46475;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1219.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 102; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.8e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5

||||

Db 5 RALN 8

#### RESULT 41

ABB46220

ID ABB46220 standard; peptide; 11 AA.

XX

AC ABB46220;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 964.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 100; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.8e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5

||||

Db 4 RALN 7

#### RESULT 42

ABB46517

ID ABB46517 standard; peptide; 11 AA.

XX

AC ABB46517;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1261.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 102; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.8e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5

||||

Db 4 RALN 7

RESULT 43

ABB46547

ID ABB46547 standard; peptide; 11 AA.

XX

AC ABB46547;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1291.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.  
 XX  
 PR 27-MAR-2000; 2000US-00535852.  
 XX  
 PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
 XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 102; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 5 RALN 8

RESULT 44  
 ABB46566  
 ID ABB46566 standard; peptide; 11 AA.  
 XX  
 AC ABB46566;  
 XX  
 DT 30-JAN-2002 (first entry)  
 XX  
 DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1310.  
 XX  
 KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
 KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
 KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
 XX

OS Synthetic.  
 XX  
 PN WO200172956-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.  
 XX  
 PR 27-MAR-2000; 2000US-00535852.  
 XX  
 PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
 XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 102; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 4 RALN 7

RESULT 45  
 ABB46192  
 ID ABB46192 standard; peptide; 11 AA.  
 XX  
 AC ABB46192;  
 XX  
 DT 30-JAN-2002 (first entry)  
 XX  
 DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 936.  
 XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
 KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
 KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200172956-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.  
 XX  
 PR 27-MAR-2000; 2000US-00535852.  
 XX  
 PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
 XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 100; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 4 RALN 7

RESULT 46  
 ABB46219  
 ID ABB46219 standard; peptide; 11 AA.  
 XX  
 AC ABB46219;  
 XX

DT 30-JAN-2002 (first entry)  
 XX  
 DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 963.  
 XX  
 KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
 KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
 KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200172956-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.  
 XX  
 PR 27-MAR-2000; 2000US-00535852.  
 XX  
 PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
 XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 100; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 4 RALN 7

RESULT 47  
 ABB46493



ID ABB46493 standard; peptide; 11 AA.  
 XX  
 AC ABB46493;  
 XX  
 DT 30-JAN-2002 (first entry)  
 XX  
 DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1237.  
 XX  
 KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
 KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
 KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200172956-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.  
 XX  
 PR 27-MAR-2000; 2000US-00535852.  
 XX  
 PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
 XX  
 PI Blaschuk OW, Symonds JM, Gour BJ;  
 XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 102; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 4 RALN 7

RESULT 48

ABB46541

ID ABB46541 standard; peptide; 11 AA.

XX

AC ABB46541;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1285.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 102; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.8e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY            2 RALN 5  
              | | | |  
Db            4 RALN 7

RESULT 49

ABB46275

ID    ABB46275 standard; peptide; 11 AA.

XX

AC    ABB46275;

XX

DT    30-JAN-2002    (first entry)

XX

DE    Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 1019.

XX

KW    Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW    cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW    organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS    Synthetic.

XX

PN    WO200172956-A2.

XX

PD    04-OCT-2001.

XX

PF    27-MAR-2001; 2001WO-IB001400.

XX

PR    27-MAR-2000; 2000US-00535852.

XX

PA    (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI    Blaschuk OW, Symonds JM, Gour BJ;

XX

DR    WPI; 2002-025778/03.

XX

PT    Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT    mediated cell adhesion, useful for facilitating wound healing and/or  
PT    reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS    Claim 18; Page 100; 127pp; English.

XX

CC    The invention relates to modulating agents for inhibiting or enhancing  
CC    desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC    comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC    (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC    sequence, a substance such as an antibody or antigen-binding fragment  
CC    that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC    polynucleotide encoding a polypeptide that comprises a desmosomal  
CC    cadherin CAR sequence or analogue. The modulating agents have  
CC    immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC    facilitate wound healing and/or reduce scar tissue, for enhancing  
CC    adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC    treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC    carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ    Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 50

ABB46565

ID ABB46565 standard; peptide; 11 AA.

XX

AC ABB46565;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1309.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 102; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),

CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis  
XX  
SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 51

ABB46226

ID ABB46226 standard; peptide; 11 AA.

XX

AC ABB46226;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 970.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 100; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal

CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.8e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5

||||

Db 4 RALN 7

## RESULT 52

ABB46255

ID ABB46255 standard; peptide; 11 AA.

XX

AC ABB46255;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 999.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;

KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;

KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin

PT mediated cell adhesion, useful for facilitating wound healing and/or

PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 100; 127pp; English.

XX

CC The invention relates to modulating agents for inhibiting or enhancing

CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent

CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence

CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis  
XX  
SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 53

ABB46304

ID ABB46304 standard; peptide; 11 AA.

XX

AC ABB46304;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 1048.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.

XX

PS Claim 18; Page 101; 127pp; English.

XX  
CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis

XX

SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
| | | |  
Db 4 RALN 7

RESULT 54

ABB46498

ID ABB46498 standard; peptide; 11 AA.

XX

AC ABB46498;

XX

DT 30-JAN-2002 (first entry)

XX

DE Desmoglein-3 CAR sequence cyclic peptide SEQ ID NO 1242.

XX

KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.

XX

OS Synthetic.

XX

PN WO200172956-A2.

XX

PD 04-OCT-2001.

XX

PF 27-MAR-2001; 2001WO-IB001400.

XX

PR 27-MAR-2000; 2000US-00535852.

XX

PA (ADHE-) ADHEREX TECHNOLOGIES INC.

XX

PI Blaschuk OW, Symonds JM, Gour BJ;

XX

DR WPI; 2002-025778/03.

XX

PT Modulating agents for inhibiting or enhancing desmosomal cadherin



PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.  
XX  
PS Claim 18; Page 102; 127pp; English.  
XX  
CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis  
XX  
SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
| | | |  
Db 5 RALN 8

RESULT 55  
ABB46199  
ID ABB46199 standard; peptide; 11 AA.  
XX  
AC ABB46199;  
XX  
DT 30-JAN-2002 (first entry)  
XX  
DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 943.  
XX  
KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
XX  
OS Synthetic.  
XX  
PN WO200172956-A2.  
XX  
PD 04-OCT-2001.  
XX  
PF 27-MAR-2001; 2001WO-IB001400.  
XX  
PR 27-MAR-2000; 2000US-00535852.  
XX  
PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
XX  
PI Blaschuk OW, Symonds JM, Gour BJ;

XX  
 DR WPI; 2002-025778/03.  
 XX  
 PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
 PT mediated cell adhesion, useful for facilitating wound healing and/or  
 PT reducing scar tissue, treating cancer and inducing apoptosis.  
 XX  
 PS Claim 18; Page 100; 127pp; English.  
 XX  
 CC The invention relates to modulating agents for inhibiting or enhancing  
 CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
 CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
 CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
 CC sequence, a substance such as an antibody or antigen-binding fragment  
 CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
 CC polynucleotide encoding a polypeptide that comprises a desmosomal  
 CC cadherin CAR sequence or analogue. The modulating agents have  
 CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
 CC facilitate wound healing and/or reduce scar tissue, for enhancing  
 CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
 CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
 CC carcinoma, leukaemia or melanoma) and induce apoptosis  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
 ||||  
 Db 4 RALN 7

RESULT 56  
 ABB46254  
 ID ABB46254 standard; peptide; 11 AA.  
 XX  
 AC ABB46254;  
 XX  
 DT 30-JAN-2002 (first entry)  
 XX  
 DE Desmoglein-1 CAR sequence cyclic peptide SEQ ID NO 998.  
 XX  
 KW Desmosomal cadherin; cell adhesion; CAR sequence; immunosuppressive;  
 KW cytostatic; antiapoptotic; wound healing; reduce scar tissue; skin graft;  
 KW organ implant; autoimmune blistering disorder; cancer; apoptosis; cyclic.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200172956-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-IB001400.  
 XX  
 PR 27-MAR-2000; 2000US-00535852.

XX  
PA (ADHE-) ADHEREX TECHNOLOGIES INC.  
XX  
PI Blaschuk OW, Symonds JM, Gour BJ;  
XX  
DR WPI; 2002-025778/03.  
XX  
PT Modulating agents for inhibiting or enhancing desmosomal cadherin  
PT mediated cell adhesion, useful for facilitating wound healing and/or  
PT reducing scar tissue, treating cancer and inducing apoptosis.  
XX  
PS Claim 18; Page 100; 127pp; English.  
XX  
CC The invention relates to modulating agents for inhibiting or enhancing  
CC desmosomal cadherin mediated cell adhesion, comprising a modulating agent  
CC comprising a desmosomal cadherin cell adhesion recognition CAR sequence  
CC (ABB45341-ABB47262), a non-peptide mimetic of a desmosomal cadherin CAR  
CC sequence, a substance such as an antibody or antigen-binding fragment  
CC that specifically binds a desmosomal cadherin CAR sequence and/or a  
CC polynucleotide encoding a polypeptide that comprises a desmosomal  
CC cadherin CAR sequence or analogue. The modulating agents have  
CC immunosuppressive, cytostatic and antiapoptotic activity and are used to  
CC facilitate wound healing and/or reduce scar tissue, for enhancing  
CC adhesion of foreign tissue implants (e.g. skin graft or organ implant),  
CC treating an autoimmune blistering disorder and to treat cancer (e.g.  
CC carcinoma, leukaemia or melanoma) and induce apoptosis  
XX  
SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
| | | |  
Db 4 RALN 7

RESULT 57  
ABP60263  
ID ABP60263 standard; peptide; 11 AA.  
XX  
AC ABP60263;  
XX  
DT 14-FEB-2003 (first entry)  
XX  
DE Synthetic peptide 62.  
XX  
KW Substrate specificity; enzyme activity; microarray; diagnosis; cancer;  
KW differential analysis; high throughput analysis.  
XX  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT Modified-site 2  
FT /label= bAla  
FT Modified-site 11

FT /note= "C-terminal amide"  
 XX  
 PN WO200283933-A2.  
 XX  
 PD 24-OCT-2002.  
 XX  
 PF 17-APR-2002; 2002WO-EP004265.  
 XX  
 PR 17-APR-2001; 2001DE-01018774.  
 XX  
 PA (JERI-) JERINI AG.  
 XX  
 PI Schneider-Mergener J, Schutkowski M, Reimer U, Dong L, Panse S;  
 PI Scharn D, Osterkamp F, Hummel G, Jobron L;  
 XX  
 DR WPI; 2003-075559/07.  
 XX  
 PT Determining substrate specificity of enzymes, useful e.g. in screening  
 PT for modulators, by detecting molecular weight changes in ordered array of  
 PT amino acid sequences.  
 XX  
 PS Example 18; Page 45; 79pp; German.  
 XX  
 CC The invention relates to determining the substrate specificity of an  
 CC enzymatic activity (EA) by contact and/or incubation of EA with an array  
 CC of many amino acid sequences (I) immobilised, in a directed manner, on  
 CC the flat surface of a carrier then detecting reaction of (I) with EA,  
 CC where the reaction is monitored from a change in the molecular weight of  
 CC (I). The method is used to determine the pattern of EA in a sample, e.g.  
 CC for differential analysis; for identification of a strain or species and  
 CC for diagnosis of disease, e.g. cancer. It can also be used for selection  
 CC of active agents, i.e. compounds that modulate EA. The method is suitable  
 CC for high throughput testing and the use of a non-porous carrier surface  
 CC makes it possible to use extremely small quantities of EA or sample. The  
 CC signal-to-noise ratio is much lower (typically by a factor of 3000) than  
 CC that in conventional peptide/protein arrays. The present sequence is that  
 CC of a peptide used in examples of the invention  
 XX  
 SQ Sequence 11 AA;

Query Match 36.4%; Score 4; DB 6; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.8e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARAL 4  
 ||||  
 Db 3 ARAL 6

RESULT 58  
 AAP71100  
 ID AAP71100 standard; peptide; 11 AA.  
 XX  
 AC AAP71100;  
 XX  
 DT 31-OCT-2002 (revised)  
 DT 05-JUN-1991 (first entry)

XX  
 DE Functional site recognition sequence of analogue of serine protease  
 DE inhibitor number 14.  
 XX  
 KW Enzyme; complement activation; therapy; clot degradation.  
 XX  
 OS Synthetic.  
 XX  
 PN EP238473-A.  
 XX  
 PD 23-SEP-1987.  
 XX  
 PF 17-MAR-1987; 87EP-00870035.  
 XX  
 PR 18-MAR-1986; 86US-00840810.  
 PR 06-FEB-1987; 87US-00006725.  
 XX  
 PA (MONS ) MONSANTO CO.  
 XX  
 PI Glover GI, Schasteen CS;  
 XX  
 DR WPI; 1987-265792/38.  
 XX  
 PT New peptide cpds. which inhibit serine protease - extensively homologous  
 PT with natural inhibitors, useful e.g. for treating excessive complement  
 PT activation.  
 XX  
 PS Claim 25; Table I(A), page 14; 34pp; English.  
 XX  
 CC The peptides of the invention are useful for treating diseases associated  
 CC with excessive protease activity particularly those involved in  
 CC complement activation, blood clotting and clot degradation. The usual  
 CC dose is 0.1-10mg/kg. (Updated on 31-OCT-2002 to add missing OS field.)  
 XX  
 SQ Sequence 11 AA;  
  
 Query Match 27.3%; Score 3; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
 Qy 2 RAL 4  
 |||  
 Db 3 RAL 5

RESULT 59

AAR08091

ID AAR08091 standard; protein; 11 AA.

XX

AC AAR08091;

XX

DT 25-MAR-2003 (revised)

DT 01-MAR-1991 (first entry)

XX

DE Antifreeze segment #1 encoded by SS3.

XX

KW synthetic antifreeze polypeptide; cryopreservation;

KW core repetitive sequence.  
 XX  
 OS Synthetic.  
 XX  
 PN WO9013571-A.  
 XX  
 PD 15-NOV-1990.  
 XX  
 PF 10-MAY-1989; 89US-00350481.  
 XX  
 PR 10-MAY-1989; 89US-00350481.  
 PR 10-APR-1990; 90US-00507716.  
 XX  
 PA (DNAP ) DNA PLANT TECHN COR.  
 XX  
 PI Warren GJ, Mueller JM, Mckown RJ, Dunsmuir P;  
 XX  
 DR WPI; 1990-361428/48.  
 XX  
 PT New anti-freeze poly-peptide(s) - used for cryo-protection of e.g. foods,  
 PT medically used biological(s), plant prods. or plants during growth.  
 XX  
 PS Disclosure; Fig 4; 11lpp; English.  
 XX  
 CC Synthetic anti-freeze polypeptides (saf) comprise a specifically  
 CC cleavable site and a region containing at least two "core" segments such  
 CC as the 11mer given here. The saf's suppress ice crystal growth by binding  
 CC to the growing crystal face and blocking sites for further crystal  
 CC growth. They can be used to maximise retention of important properties of  
 CC organic materials through freezing and thawing processes. The basic  
 CC design of the polypeptides is based on known antifreeze polypeptides from  
 CC insects and fish, e.g. the winter flounder. See also AAQ06649-Q06652,  
 CC AAQ06656, AAQ06658, AAQ06660-Q06672, AAR08070-6, AAR08087-R08090,  
 CC AAR08092-R08093. (Updated on 25-MAR-2003 to correct PR field.) (Updated  
 CC on 25-MAR-2003 to correct PA field.) (Updated on 25-MAR-2003 to correct  
 CC PI field.)  
 XX  
 SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ARA 3  
 |||  
 Db 5 ARA 7

RESULT 60  
 AAR25537  
 ID AAR25537 standard; peptide; 11 AA.  
 XX  
 AC AAR25537;  
 XX  
 DT 25-MAR-2003 (revised)  
 DT 11-JAN-1993 (first entry)  
 XX

DE N-terminus of tomato PG1 beta subunit.  
 XX  
 KW Endopolygalacturonase; thermostable; heat; transgenic.  
 XX  
 OS Lycopersicon esculentum.  
 XX  
 PN WO9211374-A1.  
 XX  
 PD 09-JUL-1992.  
 XX  
 PF 20-DEC-1991; 91WO-AU000594.  
 XX  
 PR 21-DEC-1990; 90AU-00004037.  
 XX  
 PA (CSIR ) COMMONWEALTH SCI & IND RES ORG.  
 XX  
 PI Brady C, Lee E, Pogson BJ, Orr GR, Speirs J;  
 XX  
 DR WPI; 1992-250094/30.  
 XX  
 PT DNA sequence used in prodn. of genetically engineered tomato plants -  
 PT encodes the tomato enzyme endo:poly:galacturonase PG1 beta sub-unit.  
 XX  
 PS Claim 5; Page 25; 38pp; English.  
 XX  
 CC The N-terminal peptide was encoded by a DNA sequence isolated from  
 CC tomatoes which encodes the endopolygalacturonase (PG1) beta subunit. The  
 CC PG1 DNA can be used to modulate the expression of the PG1 beta subunit in  
 CC tomatoes. PG1 is thermostable and this stability makes it important as a  
 CC catalyst of polymer changes when tomatoes are processed and is an  
 CC important determinant of the heat input required for processing. For this  
 CC reason, and because PG1 may be the form of the enzyme active in vivo,  
 CC there is commercial interest in the genetic regulation of the content of  
 CC this subunit in tomatoes. See also AAR25535,6. (Updated on 25-MAR-2003 to  
 CC correct PN field.)  
 XX  
 SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 ALN 5  
 |||  
 Db 1 ALN 3

RESULT 61  
 AAR24938  
 ID AAR24938 standard; peptide; 11 AA.  
 XX  
 AC AAR24938;  
 XX  
 DT 25-MAR-2003 (revised)  
 DT 09-DEC-1992 (first entry)  
 XX  
 DE Influenza virus peptide NP 147-158.

XX  
 KW Lipopeptide; lipoprotein; vaccine; cytotoxic T-cell; lymphocyte; HIV;  
 KW human immunodeficiency virus; AIDS; parasitic infection; cancer;  
 KW tumour cells; L1; L2; L3.  
 XX  
 OS Synthetic.  
 XX  
 PN EP491628-A2.  
 XX  
 PD 24-JUN-1992.  
 XX  
 PF 18-DEC-1991; 91EP-00403446.  
 XX  
 PR 18-DEC-1990; 90FR-00015870.  
 XX  
 PA (INSP ) INST PASTEUR LILLE.  
 PA (INRM ) INSERM INST NAT SANTE & RECH MED.  
 PA (INSP ) INST PASTEUR.  
 XX  
 PI Boutillon C, Martinon F, Sergheraert C, Magne R, Gras-Masse H;  
 PI Gomard E, Tartar A, Levy JP;  
 XX  
 DR WPI; 1992-209776/26.  
 XX  
 PT Lipopeptide(s) which stimulate cytotoxic T-cells - for treating HIV,  
 PT parasitic infections and cancer.  
 XX  
 PS Example; Page 17; 32pp; French.  
 XX  
 CC The sequence is that of peptide NP 147-158 R derived from influenza  
 CC virus, it is made by standard methods of solid phase peptide synthesis.  
 CC It is used as part of lipoproteins L1, L2 and L3 which comprise the  
 CC peptide, and one or more chains derived from 10-20C fatty acids and/ or  
 CC modified steroid groups, these being coupled to alpha or epsilon amino  
 CC groups of the peptide. The lipoproteins are useful in vaccines and acts  
 CC by inducing cytotoxic T lymphocytes against the influenza virus antigen  
 CC from which the peptide is derived. See also AAR24939 and AAR24940.  
 CC (Updated on 25-MAR-2003 to correct PN field.)  
 XX  
 SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
 |||  
 Db 6 RAL 8

RESULT 62  
 AAR37230  
 ID AAR37230 standard; peptide; 11 AA.  
 XX  
 AC AAR37230;  
 XX  
 DT 10-MAR-2003 (revised)



DT 06-SEP-1993 (first entry)  
 XX  
 DE IL-6 antagonist peptide #14.  
 XX  
 KW IL-6; antagonist; cytokine; B cell differentiation; inflammation;  
 KW tissue injury; B9.9 hybridoma cell line; Castleman's Disease;  
 KW Lennart's T-cell lymphoma; Non-Hodgkin's lymphoma; allergy;  
 KW immune deficiency disease; cardiac myxoma;  
 KW mesangial proliferative glomerulonephritis.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN US5210075-A.  
 XX  
 PD 11-MAY-1993.  
 XX  
 PF 16-FEB-1990; 90US-00480868.  
 XX  
 PR 16-FEB-1990; 90US-00480868.  
 XX  
 PA (TANA ) TANABE SEIYAKU CO.  
 XX  
 PI Scholz W, Chiang S, Nagarajan G, Lobl TJ;  
 XX  
 DR WPI; 1993-166970/20.  
 XX  
 PT New peptide interleukin-6 antagonists - for treating and preventing auto-  
 PT immune, immuno:inflammatory, neoplastic and infectious diseases etc.  
 XX  
 PS Example 3; Col 27; 20pp; English.  
 XX  
 CC This peptide is a specific example of a highly generic claimed formula  
 CC covering sequences derived from the p51-70 portion (i.e the IL-6 receptor  
 CC -binding portion) of IL-6 (see AAR37216) or modelled after different  
 CC portions of this sequence. In an assay to determine IL-6 antagonist  
 CC activity of this peptide, proliferation of the IL-6 dependent B9.9  
 CC hybridoma cell line (J.Immunol. 139: 4116, 1987) was inhibited by 33 (+/-  
 CC 51)%. See AAR37216-R37261. (Updated on 10-MAR-2003 to add missing OS  
 CC field.)  
 XX  
 SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 ALN 5  
 |||  
 Db 7 ALN 9

RESULT 63  
 AAR36924  
 ID AAR36924 standard; peptide; 11 AA.  
 XX  
 AC AAR36924;

XX  
 DT 25-MAR-2003 (revised)  
 DT 02-SEP-1993 (first entry)  
 XX  
 DE Insulin-like growth factor-II functional derivative.  
 XX  
 KW IGF-II; disorder; treatment; survival; retinal neuronal cells; promotion;  
 KW injury; ageing; disease; photodegeneration; trauma; axotomy;  
 KW neurotoxic-excitatory degeneration; diabetic retinopathy;  
 KW ischemic neuronal degeneration; inherited retinal dystrophy;  
 KW Alzheimer's disease; infantile malignant osteopetrosis; cholestasis;  
 KW ceroid-lipofuscosis; cyclic.  
 XX  
 OS Synthetic.  
 XX  
 PN W09308826-A1.  
 XX  
 PD 13-MAY-1993.  
 XX  
 PF 03-NOV-1992; 92WO-US009443.  
 XX  
 PR 08-NOV-1991; 91US-00790690.  
 PR 15-OCT-1992; 92US-00963329.  
 XX  
 PA (CEPH-) CEPHALON INC.  
 XX  
 PI Bozyczko-Coyne D, Neff N, Lewis ME, Iqbal M;  
 XX  
 DR WPI; 1993-167389/20.  
 XX  
 PT Use of IGF-I or IGF-II or their functional derivs. - for treating  
 PT disorders characterised by death and/or dysfunction of retinal cells.  
 XX  
 PS Example; Page 76; 97pp; English.  
 XX  
 CC The sequence is that of a functional derivative of human insulin-like  
 CC growth factor (IGF)-II which promotes the survival of retinal neuronal  
 CC cells. It can be used for the treatment of retinal neuronal tissues which  
 CC are suffering from the effects of injury, ageing and/or disease such as  
 CC photodegeneration, trauma, axotomy, neurotoxic-excitatory degeneration,  
 CC ischemic neuronal degeneration, inherited retinal dystrophy, diabetic  
 CC retinopathy, Alzheimer's disease, infantile malignant osteopetrosis,  
 CC ceroid lipofuscosis or cholestasis. (Updated on 25-MAR-2003 to correct PN  
 CC field.)  
 XX  
 SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AKP 10  
 |||  
 Db 5 AKP 7

RESULT 64

AAR41014  
 ID AAR41014 standard; peptide; 11 AA.  
 XX  
 AC AAR41014;  
 XX  
 DT 25-MAR-2003 (revised)  
 DT 12-OCT-1993 (first entry)  
 XX  
 DE Influenza virus CTL inducing peptide R-.  
 XX  
 KW Cytotoxic T-lymphocyte; CTL; influenza virus; CD8+; nucleoprotein.  
 XX  
 OS Synthetic.  
 XX  
 PN WO9310816-A1.  
 XX  
 PD 10-JUN-1993.  
 XX  
 PF 02-DEC-1992; 92WO-US010378.  
 XX  
 PR 02-DEC-1991; 91US-00800932.  
 PR 16-SEP-1992; 92US-00945865.  
 XX  
 PA (TEXA ) UNIV TEXAS SYSTEM.  
 XX  
 PI Sastry JK, Arlinghaus RB, Platsoucas CD, Nehete PN;  
 XX  
 DR WPI; 1993-196739/24.  
 XX  
 PT Peptide composition for treating and preventing viral infections -  
 PT comprise CTL-inducing epitope and HIV infection-inhibiting sequence or T  
 PT helper cell-inducing sequence.  
 XX  
 PS Claim 24; Page 96; 130pp; English.  
 XX  
 CC HIV gp120 V3 loop-derived peptides (AAR38170-87) are successful in  
 CC generating CTL responses, esp. peptide R15K (AAR38187); the T-helper cell  
 CC -inducing peptide includes the sequence C19A (AAR38164); HIV infection-  
 CC inhibiting peptides are given in AAR38188-206, and are esp. peptides  
 CC R15K, N24G, E13V, R8K, T13Q and H13N (AAR38165-69). The peptides may also  
 CC be derived from an influenza virus protein or a sendai virus protein  
 CC (AAR41014-15). Peptide R- (amino acids 147-158) corresponds to a portion  
 CC of the nucleoprotein of influenza virus. Specific CD8+ CTLs, that lysed  
 CC target cells pre-treated with this peptide, could be induced in vivo by  
 CC immunisation of mice with the free synthetic peptide. (Updated on 25-MAR-  
 CC 2003 to correct PN field.)  
 XX  
 SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
 |||  
 Db 6 RAL 8

RESULT 65

AAR34249

ID AAR34249 standard; peptide; 11 AA.

XX

AC AAR34249;

XX

DT 25-MAR-2003 (revised)

DT 04-AUG-1993 (first entry)

XX

DE Mutant HTLV-I residues 88-98, peptide 2L-1.3.

XX

KW Human T-cell leukaemia virus; hydrophilic; conjugate; aggregate;  
 KW diagnosis; antibodies; gp46; mutant; gag; T cell epitope.

XX

OS Synthetic.

XX

PN WO9306843-A1.

XX

PD 15-APR-1993.

XX

PF 08-OCT-1992; 92WO-US008405.

XX

PR 08-OCT-1991; 91US-00771553.

XX

PA (UYDU-) UNIV DUKE.

XX

PI Palker TJ, Haynes BF;

XX

DR WPI; 1993-134125/16.

XX

PT Antigenic determinant peptide(s) of HTLV envelope glyco:protein - useful  
 PT for detecting anti-HTLV-I and -II antibodies and as vaccine against HTLV.

XX

PS Example 7; Page 32; 50pp; English.

XX

CC To determine which amino acids within the HTLV-I envelope amino acids 88-  
 CC 98 were required for absorption of neutralising anti-peptide antibodies  
 CC to HTLV-I, 11 peptides (2L1.1-2L1.11) were synthesised in which  
 CC sequential amino acids were each replaced by the amino acid alanine.  
 CC These 11 mutated peptides, as well as peptide 2L-1 bearing the native  
 CC HTLV-I sequence were tested and identified that amino acids 90, 92, 93  
 CC and 95 were important for HTLV-I neutralisation. See also AAR34225-57.  
 CC (Updated on 25-MAR-2003 to correct PN field.)

XX

SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;

Best Local Similarity 100.0%; Pred. No. 1.1e+04;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 AKP 10

|||

Db 3 AKP 5

RESULT 66

AAR38406

ID AAR38406 standard; peptide; 11 AA.

XX

AC AAR38406;

XX

DT 25-MAR-2003 (revised)

DT 12-OCT-1993 (first entry)

XX

DE Radiodiagnostic peptide #6.

XX

KW Peptide; radioactive; label; imaging; mammal; technetium-99m; Tc-99m;

KW targetting; organs; kidney; diagnosis; tumours; isotope;

KW scintigraphic agent.

XX

OS Synthetic.

XX

FH Key Location/Qualifiers

FT Misc-difference 1

FT /label= mercaptoacetyl-Gly\_or\_2-mercapto-2-methyl-

FT propionyl-Gly

FT Modified-site 11

FT /label= Lys-NH2

XX

PN WO9310747-A2.

XX

PD 10-JUN-1993.

XX

PF 19-NOV-1992; 92WO-US010716.

XX

PR 27-NOV-1991; 91US-00807062.

XX

PA (DIAT-) DIATECH INC.

XX

PI Dean RT, Mcbride W, Buttram S;

XX

DR WPI; 1993-196687/24.

XX

PT New peptide(s) capable of technetium-99m-labelled - useful as

PT scintigraphic imaging agents for diagnosing tumours.

XX

PS Disclosure; Table 1; 15pp; English.

XX

CC The sequences given in AAR38401-06 are peptides which are capable of  
CC being radioactively labelled for imaging targets within a mammalian body.  
CC These peptides may be labelled with technetium(Tc)-99m and can be  
CC targetted to specific sites within the mammalian body. The targetting may  
CC be to specific organs, eg. the kidney, for diagnosing disorders in these  
CC organs and for imaging tumours. Tc-99 is used to label the peptides as  
CC the nuclear and radioactive properties of the isotope make it an ideal  
CC scintigraphic agent. (Updated on 25-MAR-2003 to correct PN field.)

XX

SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;

Best Local Similarity 100.0%; Pred. No. 1.1e+04;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RAL 4  
|||  
Db 4 RAL 6

RESULT 67

AAR61960

ID AAR61960 standard; peptide; 11 AA.

XX

AC AAR61960;

XX

DT 25-MAR-2003 (revised)

DT 31-MAY-1995 (first entry)

XX

DE MBP peptide 108, potential binder of HLA-A2.1.

XX

KW antigen; epitope; immunogenic target protein; PSA; HBVc; HBVs; EBV; HIV1;

KW plasma specific antigen; hepatitis B virus; Epstein Barr;

KW human immunodeficiency virus; human papilloma virus; p53; c-ERB2; MAGE-1;

KW melanoma antigen-1; core antigen; surface antigen;

KW pharmaceutical composition; in vivo; ex vivo; therapeutic; diagnostic;

KW MHC class I molecule; major histocompatibility complex; HLA-A2.1; 9mer;

KW 10mer; anchor; human leukocyte antigen; PLP; 8mer; algorithm prediction;

KW MBP.

XX

OS Homo sapiens.

XX

PN WO9420127-A1.

XX

PD 15-SEP-1994.

XX

PF 04-MAR-1994; 94WO-US002353.

XX

PR 05-MAR-1993; 93US-00027146.

PR 04-JUN-1993; 93US-00073205.

PR 29-NOV-1993; 93US-00159184.

XX

PA (CYTE-) CYTEL CORP.

XX

PI Grey HM, Sette A, Sidney J, Kast W;

XX

DR WPI; 1994-302678/37.

XX

PT Immunogenic peptide(s) having an HLA-A2.1 binding motif - used for  
PT treatment or prophylaxis of cancer, virus infection or autoimmune  
PT diseases.

XX

PS Disclosure; Page 129; 138pp; English.

XX

CC AAR61714-837 are potential peptide binders of HLA-A2.1 motif. These  
CC peptides are thus potentially immunogenic. They were predicted by using  
CC an algorithm, which assigns a score for each amino acid, at each position  
CC along a peptide. A peptide is scored in the 'Grouped Ratio' algorithm as  
CC a product of the scores of each of its residues. This value can then be  
CC used to predict a population of peptides with the highest occurrence of  
CC good binders. The peptides of the invention can induce cytotoxic T  
CC lymphocytes which can react with target cells. They can be used for the

CC treatment or prophylaxis of cancer, eg. prostate cancer or lymphoma, etc.  
CC (Updated on 25-MAR-2003 to correct PN field.)  
XX  
SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 WGA 8  
|||  
Db 9 WGA 11

RESULT 68

AAR57428

ID AAR57428 standard; protein; 11 AA.

XX

AC AAR57428;

XX

DT 14-MAR-1995 (first entry)

XX

DE Rabphilin-3A fragment, peak 7.

XX

KW Low molecular weight; G protein; target protein; rab3A p25; Rabphilin-3A;  
KW brain; nerve transmitter.

XX

OS Homo sapiens.

XX

PN JP06184199-A.

XX

PD 05-JUL-1994.

XX

PF 24-DEC-1992; 92JP-00344055.

XX

PR 24-DEC-1992; 92JP-00344055.

XX

PA (EISA ) EISAI CO LTD.

XX

DR WPI; 1994-252836/31.

XX

PT Target protein of a low molecular G protein rabphilin-3A (RAB3A) - found  
PT in the brain and involved in release of nerve transmitter substance.

XX

PS Example 3; Page 5; 9pp; Japanese.

XX

CC The sequences given in AAR57422-32 represents fragments of low molecular  
CC weight G protein target protein, designated rab3A p25. Rabphilin-3A  
CC (Rab3A) is distributed specifically in brain tissue and participates in  
CC the release of nerve transmitter substance and is useful in the study of  
CC its secretion

XX

SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy            1 ARA 3  
              | | |  
Db            8 ARA 10

RESULT 69

AAR49995

ID    AAR49995 standard; protein; 11 AA.

XX

AC    AAR49995;

XX

DT    25-MAR-2003    (revised)

DT    23-SEP-1994    (first entry)

XX

DE    Mouse OSF-5 antigenic peptide 116-126.

XX

KW    Mouse OSF-5; bone-related carboxypeptidase-like protein; growth factor;

KW    adhesion molecule; osteogenesis; bone induction;

KW    bone metabolism disorder; osteoporosis; osteopetrosis; Paget's disease;

KW    antigen; immunogen; detection.

XX

OS    Synthetic.

XX

PN    EP588118-A2.

XX

PD    23-MAR-1994.

XX

PF    25-AUG-1993;    93EP-00113604.

XX

PR    28-AUG-1992;    92JP-00230029.

PR    03-DEC-1992;    92JP-00324033.

XX

PA    (FARH ) HOECHST JAPAN LTD.

PA    (HMRI ) HOECHST MARION ROUSSELL LTD.

XX

PI    Kawai S, Takeshita S, Okazaki M, Amann E;

XX

DR    WPI; 1994-093794/12.

XX

PT    New bone-related carboxypeptidase OSF-5 - used to obtain prods. for the  
PT    diagnosis and treatment of bone metabolic diseases, e.g. osteoporosis, or  
PT    Paget's disease.

XX

PS    Example 5; Page 6; 26pp; English.

XX

CC    OSF-5 is a bone-specific carboxypeptidase which acts as an adhesion  
CC    molecule or growth factor; it takes part in osteogenesis at the site of  
CC    bone induction. OSF-5 can be used to treat bone metabolic diseases, e.g.  
CC    osteoporosis, Paget's disease, osteomalacia, hyperostosis or  
CC    osteopetrosis. To prepare anti-OSF-5 antibodies, five peptides (see  
CC    AAR49995-R49999) corresponding to regions of the full-length mouse OSF-5  
CC    sequence (AAR49994) were synthesised. Antisera raised against the  
CC    peptides could be used to immunohistochemically search for the presence  
CC    of OSF-5 in systemic slices from newborn mice and to detect expression of  
CC    OSF-5 in E.coli, yeast and animal cells. (Updated on 25-MAR-2003 to  
CC    correct PN field.) (Updated on 25-MAR-2003 to correct PA field.)



XX

SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;

Best Local Similarity 100.0%; Pred. No. 1.1e+04;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 KPK 11

|||

Db 1 KPK 3

# RESULT 70

AAR49069

ID AAR49069 standard; peptide; 11 AA.

XX

AC AAR49069;

XX

DT 25-MAR-2003 (revised)

DT 23-SEP-1994 (first entry)

XX

DE Infectious pancreatic necrosis virus antigen #16.

XX

KW Infectious pancreatic necrosis virus; IPNV; antigen; antibody; VP2; VP3;  
KW vaccine; infection; fish; detection; diagnosis.

XX

OS Infectious pancreatic necrosis virus.

XX

PN WO9404565-A2.

XX

PD 03-MAR-1994.

XX

PF 25-AUG-1993; 93WO-GB001812.

XX

PR 26-AUG-1992; 92GB-00018163.

PR 17-SEP-1992; 92GB-00019710.

XX

PA (PROT-) PROTEUS MOLECULAR DESIGN LTD.

XX

PI Fishleigh RV, Greaney PJ, Robson B, Shakespeare AP;

XX

DR WPI; 1994-083109/10.

XX

PT New polypeptide(s) corresp. to infectious pancreatic necrosis virus -  
PT used to develop prods. for detection, prophylaxis and therapy of virus  
PT infection, partic. in fish.

XX

PS Disclosure; Page 34; 47pp; English.

XX

CC The sequences given in AAR49054-82 are examples of the generic sequences  
CC given in AAR49083-91 which represent peptides corresponding to infectious  
CC pancreatic necrosis virus (IPNV) antigens. These peptides induce the  
CC production of antibodies which will cross-react with VP2 and VP3 proteins  
CC produced by a range of IPNV strains. They can be used in vaccines to  
CC prevent infection by one or more strains of IPNV, particularly in fish.  
CC The polypeptides and antibodies can also be used for detection and  
CC diagnosis of IPNV infection. (Updated on 25-MAR-2003 to correct PN

CC field.) (Updated on 25-MAR-2003 to correct PA field.)

XX

SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GAK 9

|||

Db 9 GAK 11

RESULT 71

AAR49117

ID AAR49117 standard; protein; 11 AA.

XX

AC AAR49117;

XX

DT 25-MAR-2003 (revised)

DT 12-AUG-1994 (first entry)

XX

DE Sequence of peptide of Forumula IX which corresp. to infectious  
DE pancreatic necrosis virus (IPNV).

XX

KW Infectious pancreatic necrosis virus; antigen; antibodies; VP2; VP3;  
KW vaccine; diagnosis.

XX

OS Synthetic.

XX

PN WO9404565-A2.

XX

PD 03-MAR-1994.

XX

PF 25-AUG-1993; 93WO-GB001812.

XX

PR 26-AUG-1992; 92GB-00018163.

PR 17-SEP-1992; 92GB-00019710.

XX

PA (PROT-) PROTEUS MOLECULAR DESIGN LTD.

XX

PI Fishleigh RV, Greaney PJ, Robson B, Shakespeare AP;

XX

DR WPI; 1994-083109/10.

XX

PT New polypeptide(s) corresp. to infectious pancreatic necrosis virus -  
PT used to develop prods. for detection, prophylaxis and therapy of virus  
PT infection, partic. in fish.

XX

PS Claim 1; Page 33; 47pp; English.

XX

CC The peptide may be as it is, or additional AAs may be present on the N-  
CC and/or C-terminus with the proviso that: (i) when present they do not  
CC form an epitope or part of an epitope of the VP2 or VP3 proteins of any  
CC strain of IPNV which, in the sequence of the VP2 or VP3 proteins of the  
CC strain, is contiguous with the sequence to which the N- and C- terminal  
CC AA(s) are attached, the polypeptide opt. contg. a functionalised

CC coupling moiety; or (ii) if the N- or C-terminal AA(s) are such that the  
CC region of homology with the sequence of the VP2 or VP3 protein of any  
CC strain of IPNV extends into the X or Y sequences, the region of homology  
CC must not be so long as to have a significant detrimental effect on the  
CC efficacy of the polypeptide to elicit antibodies of high specificity.  
CC (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to  
CC correct PA field.)

XX

SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GAK 9  
|||  
Db 9 GAK 11

RESULT 72

AAR49119

ID AAR49119 standard; protein; 11 AA.

XX

AC AAR49119;

XX

DT 25-MAR-2003 (revised)

DT 12-AUG-1994 (first entry)

XX

DE Sequence of peptide of Forumula IX which corresp. to infectious  
DE pancreatic necrosis virus (IPNV).

XX

KW Infectious pancreatic necrosis virus; antigen; antibodies; VP2; VP3;  
KW vaccine; diagnosis.

XX

OS Synthetic.

XX

PN WO9404565-A2.

XX

PD 03-MAR-1994.

XX

PF 25-AUG-1993; 93WO-GB001812.

XX

PR 26-AUG-1992; 92GB-00018163.

PR 17-SEP-1992; 92GB-00019710.

XX

PA (PROT-) PROTEUS MOLECULAR DESIGN LTD.

XX

PI Fishleigh RV, Greaney PJ, Robson B, Shakespeare AP;

XX

DR WPI; 1994-083109/10.

XX

PT New polypeptide(s) corresp. to infectious pancreatic necrosis virus -  
PT used to develop prods. for detection, prophylaxis and therapy of virus  
PT infection, partic. in fish.

XX

PS Claim 1; Page 34; 47pp; English.

XX

CC The peptide may be as it is, or additional AAs may be present on the N-  
CC and/or C-terminus with the proviso that: (i) when present they do not  
CC form an epitope or part of an epitope of the VP2 or VP3 proteins of any  
CC strain of IPNV which, in the sequence of the VP2 or VP3 proteins of the  
CC strain, is contiguous with the sequence to which the N- and C- terminal  
CC AA(s) are attached, the polypeptide opt. contg. a functionalised  
CC coupling moiety; or (ii) if the N- or C-terminal AA(s) are such that the  
CC region of homology with the sequence of the VP2 or VP3 protein of any  
CC strain of IPNV extends into the X or Y sequences, the region of homology  
CC must not be so long as to have a significant detrimental effect on the  
CC efficacy of the polypeptide to elicit antibodies of high specificity.  
CC (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to  
CC correct PA field.)

XX

SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 GAK 9  
|||  
Db 9 GAK 11

RESULT 73

AAR49067

ID AAR49067 standard; peptide; 11 AA.

XX

AC AAR49067;

XX

DT 25-MAR-2003 (revised)

DT 23-SEP-1994 (first entry)

XX

DE Infectious pancreatic necrosis virus antigen #14.

XX

KW Infectious pancreatic necrosis virus; IPNV; antigen; antibody; VP2; VP3;  
KW vaccine; infection; fish; detection; diagnosis.

XX

OS Infectious pancreatic necrosis virus.

XX

PN WO9404565-A2.

XX

PD 03-MAR-1994.

XX

PF 25-AUG-1993; 93WO-GB001812.

XX

PR 26-AUG-1992; 92GB-00018163.

PR 17-SEP-1992; 92GB-00019710.

XX

PA (PROT-) PROTEUS MOLECULAR DESIGN LTD.

XX

PI Fishleigh RV, Greaney PJ, Robson B, Shakespeare AP;

XX

DR WPI; 1994-083109/10.

XX

PT New polypeptide(s) corresp. to infectious pancreatic necrosis virus -

PT used to develop prods. for detection, prophylaxis and therapy of virus  
PT infection, partic. in fish.  
XX  
PS Disclosure; Page 33; 47pp; English.  
XX  
CC The sequences given in AAR49054-82 are examples of the generic sequences  
CC given in AAR49083-91 which represent peptides corresponding to infectious  
CC pancreatic necrosis virus (IPNV) antigens. These peptides induce the  
CC production of antibodies which will cross-react with VP2 and VP3 proteins  
CC produced by a range of IPNV strains. They can be used in vaccines to  
CC prevent infection by one or more strains of IPNV, particularly in fish.  
CC The polypeptides and antibodies can also be used for detection and  
CC diagnosis of IPNV infection. (Updated on 25-MAR-2003 to correct PN  
CC field.) (Updated on 25-MAR-2003 to correct PA field.)  
XX  
SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GAK 9  
|||  
Db 9 GAK 11

#### RESULT 74

AAR52710

ID AAR52710 standard; protein; 11 AA.

XX

AC AAR52710;

XX

DT 25-MAR-2003 (revised)

DT 06-JAN-1995 (first entry)

XX

DE Enkephalinase peptide fragment KC31.

XX

KW Human; enkephalinase; neutral endopeptidase; kidney; intestine; kinin;  
KW kidney brush border neutral proteinase; pituitary; brain; lymph nodes;  
KW neutrophils; enkephalins; tachykinins.

XX

OS Synthetic.

XX

FH Key Location/Qualifiers

FT Misc-difference 1

FT /note= "Unidentified amino acid"

XX

PN EP596355-A1.

XX

PD 11-MAY-1994.

XX

PF 23-DEC-1987; 93EP-00117230.

XX

PR 24-DEC-1986; 86US-00946566.

PR 12-JAN-1987; 87US-00002478.

XX

PA (GETH ) GENENTECH INC.

XX  
 PI Malfroy-Camine B, Schofield PR;  
 XX  
 DR WPI; 1994-152785/19.  
 XX  
 PT Method for assay of enkephalinase using dansylated peptide(s) - for  
 PT identification of recombinant enkephalinase.  
 XX  
 PS Example 1; Page 13; 6lpp; English.  
 XX  
 CC The sequences given in AAR52709-14 represents peptide fragments of rat  
 CC enkephalinase derived from rat kidney. These peptides were generated by  
 CC Lysine-C proteinase digestion of enkephalinase and HPLC purification.  
 CC Enkephalinase is a neutral endopeptidase or kidney brush border neutral  
 CC proteinase. It has been isolated from the kidney, intestine, pituitary,  
 CC brain and lymph nodes, and has been detected in many peripheral organs  
 CC and in human neutrophils. The distribution of enkephalinase in the brain  
 CC closely parallels that of the enkephalins. Mammalian enkephalinase may be  
 CC used in the treatment of various pathological disorders associated with  
 CC various endogenous peptides, eg. tachykinins and kinins. (Updated on 25-  
 CC MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PF  
 CC field.)  
 XX  
 SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KPK 11  
 |||  
 Db 9 KPK 11

RESULT 75  
 AAR71315  
 ID AAR71315 standard; peptide; 11 AA.  
 XX  
 AC AAR71315;  
 XX  
 DT 25-MAR-2003 (revised)  
 DT 18-AUG-1995 (first entry)  
 XX  
 DE GPV K5/6 peptide(31-41).  
 XX  
 KW Glycoprotein V; GPV; platelet; polymerase chain reaction; PCR; primer.  
 XX  
 OS Synthetic.  
 XX  
 PN WO9502054-A2.  
 XX  
 PD 19-JAN-1995.  
 XX  
 PF 07-JUL-1994; 94WO-US007644.  
 XX  
 PR 09-JUL-1993; 93US-00089455.  
 PR 03-DEC-1993; 93US-00162599.

PR 10-FEB-1994; 94US-00195006.

XX

PA (CORT-) COR THERAPEUTICS INC.

XX

PI Lanza F, Phillips DR, Cazenave J;

XX

DR WPI; 1995-066899/09.

XX

PT Platelet glycoprotein V gene - useful for producing glycoprotein V (GPV)  
PT and variants and generating antibodies to GPV.

XX

PS Disclosure; Table 1; 82pp; English.

XX

CC Primers used for the PCR amplification of human platelet glycoprotein V  
CC (GPV) cDNA are given in AAQ85595-602. Primer 4(-) is based on K5/6  
CC peptide residues 31-41 (AAR71315) of GPV. (Updated on 25-MAR-2003 to  
CC correct PN field.)

XX

SQ Sequence 11 AA;

Query Match 27.3%; Score 3; DB 2; Length 11;

Best Local Similarity 100.0%; Pred. No. 1.1e+04;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 ALN 5

|||

Db 3 ALN 5

Search completed: April 8, 2004, 15:39:51

Job time : 45.3077 secs

OM protein - protein search, using sw model

Run on: April 8, 2004, 15:30:08 ; Search time 11.3077 Seconds  
(without alignments)  
50.221 Million cell updates/sec

Title: US-09-787-443A-3  
Perfect score: 11  
Sequence: 1 ARALNKGAKPK 11

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 389414 seqs, 51625971 residues

Word size : 0

Total number of hits satisfying chosen parameters: 8542

Minimum DB seq length: 11

Maximum DB seq length: 11

Post-processing: Listing first 100 summaries

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2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep:\*  
3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep:\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep:\*  
5: /cgn2\_6/ptodata/2/iaa/PCTUS\_COMB.pep:\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	%		DB	ID	Description
		Query Match	Length			
1	4	36.4	11	3	US-08-844-978-32	Sequence 32, Appl
2	4	36.4	11	3	US-08-844-978-35	Sequence 35, Appl
3	4	36.4	11	4	US-09-535-852-935	Sequence 935, App
4	4	36.4	11	4	US-09-535-852-936	Sequence 936, App
5	4	36.4	11	4	US-09-535-852-942	Sequence 942, App
6	4	36.4	11	4	US-09-535-852-943	Sequence 943, App
7	4	36.4	11	4	US-09-535-852-963	Sequence 963, App
8	4	36.4	11	4	US-09-535-852-964	Sequence 964, App
9	4	36.4	11	4	US-09-535-852-970	Sequence 970, App
10	4	36.4	11	4	US-09-535-852-971	Sequence 971, App
11	4	36.4	11	4	US-09-535-852-991	Sequence 991, App



12	4	36.4	11	4	US-09-535-852-992	Sequence 992, App
13	4	36.4	11	4	US-09-535-852-998	Sequence 998, App
14	4	36.4	11	4	US-09-535-852-999	Sequence 999, App
15	4	36.4	11	4	US-09-535-852-1019	Sequence 1019, Ap
16	4	36.4	11	4	US-09-535-852-1020	Sequence 1020, Ap
17	4	36.4	11	4	US-09-535-852-1026	Sequence 1026, Ap
18	4	36.4	11	4	US-09-535-852-1027	Sequence 1027, Ap
19	4	36.4	11	4	US-09-535-852-1047	Sequence 1047, Ap
20	4	36.4	11	4	US-09-535-852-1048	Sequence 1048, Ap
21	4	36.4	11	4	US-09-535-852-1054	Sequence 1054, Ap
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23	4	36.4	11	4	US-09-535-852-1213	Sequence 1213, Ap
24	4	36.4	11	4	US-09-535-852-1214	Sequence 1214, Ap
25	4	36.4	11	4	US-09-535-852-1218	Sequence 1218, Ap
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27	4	36.4	11	4	US-09-535-852-1237	Sequence 1237, Ap
28	4	36.4	11	4	US-09-535-852-1238	Sequence 1238, Ap
29	4	36.4	11	4	US-09-535-852-1242	Sequence 1242, Ap
30	4	36.4	11	4	US-09-535-852-1243	Sequence 1243, Ap
31	4	36.4	11	4	US-09-535-852-1261	Sequence 1261, Ap
32	4	36.4	11	4	US-09-535-852-1262	Sequence 1262, Ap
33	4	36.4	11	4	US-09-535-852-1266	Sequence 1266, Ap
34	4	36.4	11	4	US-09-535-852-1267	Sequence 1267, Ap
35	4	36.4	11	4	US-09-535-852-1285	Sequence 1285, Ap
36	4	36.4	11	4	US-09-535-852-1286	Sequence 1286, Ap
37	4	36.4	11	4	US-09-535-852-1290	Sequence 1290, Ap
38	4	36.4	11	4	US-09-535-852-1291	Sequence 1291, Ap
39	4	36.4	11	4	US-09-535-852-1309	Sequence 1309, Ap
40	4	36.4	11	4	US-09-535-852-1310	Sequence 1310, Ap
41	4	36.4	11	4	US-09-535-852-1314	Sequence 1314, Ap
42	4	36.4	11	4	US-09-535-852-1315	Sequence 1315, Ap
43	4	36.4	11	4	US-09-479-378-32	Sequence 32, Appl
44	4	36.4	11	4	US-09-479-378-35	Sequence 35, Appl
45	3	27.3	11	1	US-07-842-089E-16	Sequence 16, Appl
46	3	27.3	11	1	US-07-842-089E-17	Sequence 17, Appl
47	3	27.3	11	1	US-08-030-731A-48	Sequence 48, Appl
48	3	27.3	11	1	US-08-264-485-16	Sequence 16, Appl
49	3	27.3	11	1	US-08-264-485-17	Sequence 17, Appl
50	3	27.3	11	1	US-07-807-062-4	Sequence 4, Appli
51	3	27.3	11	1	US-07-723-002C-14	Sequence 14, Appl
52	3	27.3	11	1	US-08-111-939-7	Sequence 7, Appli
53	3	27.3	11	1	US-08-116-733-33	Sequence 33, Appl
54	3	27.3	11	1	US-08-081-259-5	Sequence 5, Appli
55	3	27.3	11	1	US-08-687-226-69	Sequence 69, Appl
56	3	27.3	11	1	US-08-465-167A-9	Sequence 9, Appli
57	3	27.3	11	1	US-08-471-780C-124	Sequence 124, App
58	3	27.3	11	1	US-08-191-866D-71	Sequence 71, Appl
59	3	27.3	11	1	US-08-467-282B-124	Sequence 124, App
60	3	27.3	11	1	US-08-462-212-4	Sequence 4, Appli
61	3	27.3	11	2	US-08-471-741-4	Sequence 4, Appli
62	3	27.3	11	2	US-08-471-282A-124	Sequence 124, App
63	3	27.3	11	2	US-08-733-505A-28	Sequence 28, Appl
64	3	27.3	11	2	US-08-733-505A-31	Sequence 31, Appl
65	3	27.3	11	2	US-08-733-505A-33	Sequence 33, Appl
66	3	27.3	11	2	US-08-733-505A-36	Sequence 36, Appl
67	3	27.3	11	2	US-08-633-148-20	Sequence 20, Appl
68	3	27.3	11	2	US-08-244-336-4	Sequence 4, Appli

69	3	27.3	11	2	US-08-251-472-1	Sequence 1, Appli
70	3	27.3	11	2	US-08-185-949B-71	Sequence 71, Appl
71	3	27.3	11	2	US-08-466-710C-124	Sequence 124, App
72	3	27.3	11	2	US-08-968-676-12	Sequence 12, Appl
73	3	27.3	11	2	US-08-706-741B-63	Sequence 63, Appl
74	3	27.3	11	2	US-08-706-741B-66	Sequence 66, Appl
75	3	27.3	11	2	US-08-706-741B-68	Sequence 68, Appl
76	3	27.3	11	2	US-08-706-741B-71	Sequence 71, Appl
77	3	27.3	11	2	US-08-433-133-46	Sequence 46, Appl
78	3	27.3	11	2	US-08-484-905-21	Sequence 21, Appl
79	3	27.3	11	2	US-08-924-695A-63	Sequence 63, Appl
80	3	27.3	11	2	US-08-924-695A-66	Sequence 66, Appl
81	3	27.3	11	2	US-08-924-695A-68	Sequence 68, Appl
82	3	27.3	11	2	US-08-924-695A-71	Sequence 71, Appl
83	3	27.3	11	3	US-08-592-500-12	Sequence 12, Appl
84	3	27.3	11	3	US-08-481-985B-21	Sequence 21, Appl
85	3	27.3	11	3	US-09-248-082-1	Sequence 1, Appli
86	3	27.3	11	3	US-08-468-739C-124	Sequence 124, App
87	3	27.3	11	3	US-08-195-006-12	Sequence 12, Appl
88	3	27.3	11	3	US-09-330-095-3	Sequence 3, Appli
89	3	27.3	11	3	US-08-816-346-14	Sequence 14, Appl
90	3	27.3	11	3	US-08-370-476-21	Sequence 21, Appl
91	3	27.3	11	3	US-09-335-411-14	Sequence 14, Appl
92	3	27.3	11	3	US-08-960-780-65	Sequence 65, Appl
93	3	27.3	11	3	US-08-995-172-16	Sequence 16, Appl
94	3	27.3	11	3	US-09-208-966-4	Sequence 4, Appli
95	3	27.3	11	3	US-09-208-966-5	Sequence 5, Appli
96	3	27.3	11	3	US-09-208-966-6	Sequence 6, Appli
97	3	27.3	11	3	US-09-208-966-39	Sequence 39, Appl
98	3	27.3	11	3	US-09-208-966-40	Sequence 40, Appl
99	3	27.3	11	3	US-09-208-966-41	Sequence 41, Appl
100	3	27.3	11	3	US-09-208-966-55	Sequence 55, Appl

#### ALIGNMENTS

##### RESULT 1

US-08-844-978-32

; Sequence 32, Application US/08844978

; Patent No. 6075004

; GENERAL INFORMATION:

; APPLICANT: Benedict, Stephen

; APPLICANT: Siahaan, Teruna

; APPLICANT: Chan, Marcia

; APPLICANT: Tibbetts, Scott

; TITLE OF INVENTION: Peptide Compositions Which Induce Immune

; NUMBER OF SEQUENCES: 36

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: HOVEY, WILLIAMS, TIMMONS & COLLINS

; STREET: 2405 Grand Boulevard, Suite 400

; CITY: Kansas City

; STATE: MO

; COUNTRY: USA

; ZIP: 64108

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

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;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/844,978
;      FILING DATE:
;      CLASSIFICATION:  514
;      ATTORNEY/AGENT INFORMATION:
;      NAME:  Collins, John M.
;      REGISTRATION NUMBER:  26262
;      REFERENCE/DOCKET NUMBER:  24769-A
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (816)474-9050
;      TELEFAX:  816)474-9057
;      TELEX:  434-363
;      INFORMATION FOR SEQ ID NO:  32:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH:  11 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;      MOLECULE TYPE:  peptide
US-08-844-978-32

```

```

Query Match          36.4%;  Score 4;  DB 3;  Length 11;
Best Local Similarity 100.0%;  Pred. No. 2.2e+02;
Matches      4;  Conservative      0;  Mismatches      0;  Indels      0;  Gaps      0;

```

```

Qy      2 RALN 5
        ||||
Db      6 RALN 9

```

# RESULT 2

```

US-08-844-978-35
; Sequence 35, Application US/08844978
; Patent No. 6075004
; GENERAL INFORMATION:
; APPLICANT:  Benedict, Stephen
; APPLICANT:  Siahaan, Teruna
; APPLICANT:  Chan, Marcia
; APPLICANT:  Tibbetts, Scott
; TITLE OF INVENTION:  Peptide Compositions Which Induce Immune
; NUMBER OF SEQUENCES:  36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE:  HOVEY, WILLIAMS, TIMMONS & COLLINS
; STREET:  2405 Grand Boulevard, Suite 400
; CITY:  Kansas City
; STATE:  MO
; COUNTRY:  USA
; ZIP:  64108
; COMPUTER READABLE FORM:
; MEDIUM TYPE:  Floppy disk
; COMPUTER:  IBM PC compatible
; OPERATING SYSTEM:  PC-DOS/MS-DOS
; SOFTWARE:  PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER:  US/08/844,978

```

```

; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Collins, John M.
; REGISTRATION NUMBER: 26262
; REFERENCE/DOCKET NUMBER: 24769-A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (816)474-9050
; TELEFAX: 816)474-9057
; TELEX: 434-363
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; TOPOLOGY: circular
; MOLECULE TYPE: peptide
US-08-844-978-35

```

```

Query Match          36.4%; Score 4; DB 3; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

```

```

Qy      2 RALN 5
        ||||
Db      6 RALN 9

```

RESULT 3

US-09-535-852-935

```

; Sequence 935, Application US/09535852
; Patent No. 6638911
; GENERAL INFORMATION:
; APPLICANT: Blachuk, Orest W.
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 935
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence
US-09-535-852-935

```

```

Query Match          36.4%; Score 4; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

```

```

Qy      2 RALN 5
        ||||

```

Db 4 RALN 7

RESULT 4

US-09-535-852-936  
; Sequence 936, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 936  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence  
US-09-535-852-936

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
    ||||  
Db 4 RALN 7

RESULT 5

US-09-535-852-942  
; Sequence 942, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 942  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising

; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence  
US-09-535-852-942

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 6

US-09-535-852-943

; Sequence 943, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 943  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence  
US-09-535-852-943

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 7

US-09-535-852-963

; Sequence 963, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852

; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 963  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence  
US-09-535-852-963

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
    ||||  
Db 4 RALN 7

RESULT 8

US-09-535-852-964  
; Sequence 964, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 964  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence  
US-09-535-852-964

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
    ||||  
Db 4 RALN 7

RESULT 9

US-09-535-852-970  
; Sequence 970, Application US/09535852

```
; Patent No. 6638911
; GENERAL INFORMATION:
; APPLICANT: Blachuk, Orest W.
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 970
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence
US-09-535-852-970
```

```
Query Match          36.4%; Score 4; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      2 RALN 5
        ||||
Db      4 RALN 7
```

RESULT 10

```
US-09-535-852-971
; Sequence 971, Application US/09535852
; Patent No. 6638911
; GENERAL INFORMATION:
; APPLICANT: Blachuk, Orest W.
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 971
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence
US-09-535-852-971
```

```
Query Match          36.4%; Score 4; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```



Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 11

US-09-535-852-991

; Sequence 991, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 991  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence  
US-09-535-852-991

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 12

US-09-535-852-992

; Sequence 992, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 992  
; LENGTH: 11  
; TYPE: PRT

; ORGANISM: Artificial Sequence  
;  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence  
US-09-535-852-992

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
    ||||  
Db 4 RALN 7

RESULT 13

US-09-535-852-998

; Sequence 998, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 998  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence  
US-09-535-852-998

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
    ||||  
Db 4 RALN 7

RESULT 14

US-09-535-852-999

; Sequence 999, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING

```
; TITLE OF INVENTION:  DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 999
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence
US-09-535-852-999
```

```
Query Match          36.4%; Score 4; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      2 RALN 5
        ||||
Db      4 RALN 7
```

# RESULT 15

```
US-09-535-852-1019
; Sequence 1019, Application US/09535852
; Patent No. 6638911
; GENERAL INFORMATION:
; APPLICANT: Blachuk, Orest W.
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING
; TITLE OF INVENTION:  DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1019
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence
US-09-535-852-1019
```

```
Query Match          36.4%; Score 4; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      2 RALN 5
        ||||
Db      4 RALN 7
```

RESULT 16

US-09-535-852-1020

```
; Sequence 1020, Application US/09535852
; Patent No. 6638911
; GENERAL INFORMATION:
; APPLICANT: Blachuk, Orest W.
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1020
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence
US-09-535-852-1020
```

```
Query Match          36.4%; Score 4; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      2 RALN 5
        ||||
Db      4 RALN 7
```

RESULT 17

US-09-535-852-1026

```
; Sequence 1026, Application US/09535852
; Patent No. 6638911
; GENERAL INFORMATION:
; APPLICANT: Blachuk, Orest W.
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1026
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence
US-09-535-852-1026
```

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 18

US-09-535-852-1027  
; Sequence 1027, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1027  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence  
US-09-535-852-1027

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 19

US-09-535-852-1047  
; Sequence 1047, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 1047  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence  
US-09-535-852-1047

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
    ||||  
Db 4 RALN 7

RESULT 20

US-09-535-852-1048  
; Sequence 1048, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1048  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence  
US-09-535-852-1048

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
    ||||  
Db 4 RALN 7

RESULT 21

US-09-535-852-1054  
; Sequence 1054, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.

```
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1054
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence
US-09-535-852-1054
```

```
Query Match          36.4%; Score 4; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      2 RALN 5
        ||||
Db      4 RALN 7
```

#### RESULT 22

US-09-535-852-1055

```
; Sequence 1055, Application US/09535852
; Patent No. 6638911
; GENERAL INFORMATION:
; APPLICANT: Blachuk, Orest W.
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1055
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-1 cell adhesion recognition sequence
US-09-535-852-1055
```

```
Query Match          36.4%; Score 4; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      2 RALN 5
        ||||
```

Db 4 RALN 7

RESULT 23

US-09-535-852-1213  
; Sequence 1213, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1213  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence  
US-09-535-852-1213

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 24

US-09-535-852-1214  
; Sequence 1214, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1214  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising



; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence  
US-09-535-852-1214

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 25

US-09-535-852-1218

; Sequence 1218, Application US/09535852

; Patent No. 6638911

; GENERAL INFORMATION:

; APPLICANT: Blachuk, Orest W.

; APPLICANT: Symonds, James M.

; APPLICANT: Gour, Barbara J.

; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING

; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS

; FILE REFERENCE: 100086.407C6

; CURRENT APPLICATION NUMBER: US/09/535,852

; CURRENT FILING DATE: 2001-05-21

; NUMBER OF SEQ ID NOS: 2009

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 1218

; LENGTH: 11

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Cyclicized modulating agent comprising

; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence

US-09-535-852-1218

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 5 RALN 8

RESULT 26

US-09-535-852-1219

; Sequence 1219, Application US/09535852

; Patent No. 6638911

; GENERAL INFORMATION:

; APPLICANT: Blachuk, Orest W.

; APPLICANT: Symonds, James M.

; APPLICANT: Gour, Barbara J.

; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING

; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS

; FILE REFERENCE: 100086.407C6

; CURRENT APPLICATION NUMBER: US/09/535,852

; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1219  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence  
US-09-535-852-1219

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
    ||||  
Db 5 RALN 8

RESULT 27

US-09-535-852-1237  
; Sequence 1237, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1237  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence  
US-09-535-852-1237

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
    ||||  
Db 4 RALN 7

RESULT 28

US-09-535-852-1238  
; Sequence 1238, Application US/09535852

```
; Patent No. 6638911
; GENERAL INFORMATION:
; APPLICANT: Blachuk, Orest W.
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1238
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence
US-09-535-852-1238
```

```
Query Match          36.4%; Score 4; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      2 RALN 5
        ||||
Db      4 RALN 7
```

#### RESULT 29

```
US-09-535-852-1242
; Sequence 1242, Application US/09535852
; Patent No. 6638911
; GENERAL INFORMATION:
; APPLICANT: Blachuk, Orest W.
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1242
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence
US-09-535-852-1242
```

```
Query Match          36.4%; Score 4; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

Qy 2 RALN 5  
||||  
Db 5 RALN 8

RESULT 30

US-09-535-852-1243

; Sequence 1243, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1243  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence  
US-09-535-852-1243

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 5 RALN 8

RESULT 31

US-09-535-852-1261

; Sequence 1261, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1261  
; LENGTH: 11  
; TYPE: PRT

; ORGANISM: Artificial Sequence  
;  
; FEATURE:  
;  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence  
US-09-535-852-1261

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 32

US-09-535-852-1262

; Sequence 1262, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1262  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
;  
; FEATURE:  
;  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence  
US-09-535-852-1262

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 33

US-09-535-852-1266

; Sequence 1266, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING

```
; TITLE OF INVENTION:  DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1266
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence
US-09-535-852-1266
```

```
Query Match          36.4%; Score 4; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      2 RALN 5
        ||||
Db      5 RALN 8
```

#### RESULT 34

```
US-09-535-852-1267
; Sequence 1267, Application US/09535852
; Patent No. 6638911
; GENERAL INFORMATION:
; APPLICANT: Blachuk, Orest W.
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING
; TITLE OF INVENTION:  DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1267
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence
US-09-535-852-1267
```

```
Query Match          36.4%; Score 4; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      2 RALN 5
        ||||
Db      5 RALN 8
```

RESULT 35

US-09-535-852-1285

```
; Sequence 1285, Application US/09535852
; Patent No. 6638911
; GENERAL INFORMATION:
; APPLICANT: Blachuk, Orest W.
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1285
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence
US-09-535-852-1285
```

```
Query Match          36.4%; Score 4; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches      4; Conservative    0; Mismatches    0; Indels      0; Gaps      0;
```

```
Qy      2 RALN 5
        ||||
Db      4 RALN 7
```

RESULT 36

US-09-535-852-1286

```
; Sequence 1286, Application US/09535852
; Patent No. 6638911
; GENERAL INFORMATION:
; APPLICANT: Blachuk, Orest W.
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1286
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cyclicized modulating agent comprising
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence
US-09-535-852-1286
```

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 37

US-09-535-852-1290  
; Sequence 1290, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1290  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence  
US-09-535-852-1290

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 5 RALN 8

RESULT 38

US-09-535-852-1291  
; Sequence 1291, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0



; SEQ ID NO 1291  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence  
US-09-535-852-1291

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 5 RALN 8

RESULT 39

US-09-535-852-1309  
; Sequence 1309, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1309  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence  
US-09-535-852-1309

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
||||  
Db 4 RALN 7

RESULT 40

US-09-535-852-1310  
; Sequence 1310, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.

; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1310  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence  
US-09-535-852-1310

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
    ||||  
Db 4 RALN 7

RESULT 41

US-09-535-852-1314  
; Sequence 1314, Application US/09535852  
; Patent No. 6638911  
; GENERAL INFORMATION:  
; APPLICANT: Blachuk, Orest W.  
; APPLICANT: Symonds, James M.  
; APPLICANT: Gour, Barbara J.  
; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING  
; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS  
; FILE REFERENCE: 100086.407C6  
; CURRENT APPLICATION NUMBER: US/09/535,852  
; CURRENT FILING DATE: 2001-05-21  
; NUMBER OF SEQ ID NOS: 2009  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1314  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Cyclicized modulating agent comprising  
; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence  
US-09-535-852-1314

Query Match 36.4%; Score 4; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5  
    ||||

Db

5 RALN 8

RESULT 42

US-09-535-852-1315

; Sequence 1315, Application US/09535852

; Patent No. 6638911

; GENERAL INFORMATION:

; APPLICANT: Blachuk, Orest W.

; APPLICANT: Symonds, James M.

; APPLICANT: Gour, Barbara J.

; TITLE OF INVENTION: COMPOUNDS AND EMTHODS FOR MODULATING

; TITLE OF INVENTION: DESMOSOMAL CADHERIN-MEDIATED FUNCTIONS

; FILE REFERENCE: 100086.407C6

; CURRENT APPLICATION NUMBER: US/09/535,852

; CURRENT FILING DATE: 2001-05-21

; NUMBER OF SEQ ID NOS: 2009

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 1315

; LENGTH: 11

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Cyclicized modulating agent comprising

; OTHER INFORMATION: desmoglein-3 cell adhesion recognition sequence

US-09-535-852-1315

Query Match 36.4%; Score 4; DB 4; Length 11;

Best Local Similarity 100.0%; Pred. No. 2.2e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RALN 5

||||

Db 5 RALN 8

RESULT 43

US-09-479-378-32

; Sequence 32, Application US/09479378

; Patent No. 6653282

; GENERAL INFORMATION:

; APPLICANT: Benedict, Stephen

; Siahahan, Teruna

; Chan, Marcia

; Tibbetts, Scott

; TITLE OF INVENTION: Peptide Compositions Which Induce Immune

; Tolerance and Methods of Use

; NUMBER OF SEQUENCES: 36

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: HOVEY, WILLIAMS, TIMMONS & COLLINS

; STREET: 2405 Grand Boulevard, Suite 400

; CITY: Kansas City

; STATE: MO

; COUNTRY: USA

; ZIP: 64108

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

```

;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/479,378
;      FILING DATE: 01-Jan-2000
;      CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: 08/844,978
;      FILING DATE: <Unknown>
;
; ATTORNEY/AGENT INFORMATION:
;      NAME: Collins, John M.
;      REGISTRATION NUMBER: 26262
;      REFERENCE/DOCKET NUMBER: 24769-A
;
; TELECOMMUNICATION INFORMATION:
;      TELEPHONE: (816)474-9050
;      TELEFAX: 816)474-9057
;      TELEX: 434-363
;
; INFORMATION FOR SEQ ID NO: 32:
;      SEQUENCE CHARACTERISTICS:
;          LENGTH: 11 amino acids
;          TYPE: amino acid
;          TOPOLOGY: linear
;      MOLECULE TYPE: peptide
;      SEQUENCE DESCRIPTION: SEQ ID NO: 32:
US-09-479-378-32

```

```

Query Match          36.4%;  Score 4;  DB 4;  Length 11;
Best Local Similarity 100.0%;  Pred. No. 2.2e+02;
Matches      4;  Conservative      0;  Mismatches      0;  Indels      0;  Gaps      0;

```

```

Qy      2 RALN 5
        ||||
Db      6 RALN 9

```

```

RESULT 44
US-09-479-378-35
; Sequence 35, Application US/09479378
; Patent No. 6653282
;   GENERAL INFORMATION:
;       APPLICANT: Benedict, Stephen
;                   Siahaan, Teruna
;                   Chan, Marcia
;                   Tibbetts, Scott
;
;   TITLE OF INVENTION: Peptide Compositions Which Induce Immune
;                       Tolerance and Methods of Use
;
;   NUMBER OF SEQUENCES: 36
;   CORRESPONDENCE ADDRESS:
;       ADDRESSEE: HOVEY, WILLIAMS, TIMMONS & COLLINS
;       STREET: 2405 Grand Boulevard, Suite 400
;       CITY: Kansas City
;       STATE: MO
;       COUNTRY: USA
;       ZIP: 64108
;
;   COMPUTER READABLE FORM:
;       MEDIUM TYPE: Floppy disk

```

```

;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.25
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/479,378
;      FILING DATE: 01-Jan-2000
;      CLASSIFICATION: <Unknown>
;      PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: 08/844,978
;      FILING DATE: <Unknown>
;      ATTORNEY/AGENT INFORMATION:
;      NAME: Collins, John M.
;      REGISTRATION NUMBER: 26262
;      REFERENCE/DOCKET NUMBER: 24769-A
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: (816)474-9050
;      TELEFAX: 816)474-9057
;      TELEX: 434-363
;      INFORMATION FOR SEQ ID NO: 35:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 11 amino acids
;      TYPE: amino acid
;      TOPOLOGY: circular
;      MOLECULE TYPE: peptide
;      SEQUENCE DESCRIPTION: SEQ ID NO: 35:
US-09-479-378-35

```

```

Query Match          36.4%;  Score 4;  DB 4;  Length 11;
Best Local Similarity 100.0%;  Pred. No. 2.2e+02;
Matches      4;  Conservative      0;  Mismatches      0;  Indels      0;  Gaps      0;

```

```

Qy      2 RALN 5
        ||||
Db      6 RALN 9

```

```

RESULT 45
US-07-842-089E-16
; Sequence 16, Application US/07842089E
; Patent No. 5356875
; GENERAL INFORMATION:
; APPLICANT: SARMIENTOS, PAOLO
; APPLICANT: DE TAXIS DU POET, PHILIPPE
; APPLICANT: NITTI, GIAMPAOLO
; APPLICANT: SCACHERI, EMANUELA
; TITLE OF INVENTION: ANTI-THROMBIN POLYPEPTIDES
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

```

```

;   COMPUTER:  IBM PC compatible
;   OPERATING SYSTEM:  PC-DOS/MS-DOS
;   SOFTWARE:  PatentIn Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER:  US/07/842,089E
;   FILING DATE:  26-FEB-1992
;   CLASSIFICATION:  435
;   ATTORNEY/AGENT INFORMATION:
;   NAME:  Oblon, No. 5356875man F.
;   REGISTRATION NUMBER:  24,618
;   REFERENCE/DOCKET NUMBER:  769-265-0
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE:  (703)412-3000
;   TELEFAX:  (703)413-2220
;   TELEX:  248855 OPAT UR
;   INFORMATION FOR SEQ ID NO:  16:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH:  11 amino acids
;   TYPE:  amino acid
;   TOPOLOGY:  linear
;   MOLECULE TYPE:  peptide
;   ORIGINAL SOURCE:
;   ORGANISM:  Hirudinaria manillensis
;   FEATURE:
;   NAME/KEY:  Region
;   LOCATION:  1..11
;   OTHER INFORMATION:  /note= "This sequence corresponds
;   OTHER INFORMATION:  to amino acids 37-47 of SEQ ID NO:1."
US-07-842-089E-16

```

```

Query Match          27.3%;  Score 3;  DB 1;  Length 11;
Best Local Similarity 100.0%;  Pred. No. 2.5e+03;
Matches      3;  Conservative      0;  Mismatches      0;  Indels      0;  Gaps      0;

```

```

Qy      9 KPK 11
      |||
Db      9 KPK 11

```

# RESULT 46

US-07-842-089E-17

```

; Sequence 17, Application US/07842089E
; Patent No. 5356875
; GENERAL INFORMATION:
; APPLICANT:  SARMIENTOS, PAOLO
; APPLICANT:  DE TAXIS DU POET, PHILIPPE
; APPLICANT:  NITTI, GIAMPAOLO
; APPLICANT:  SCACHERI, EMANUELA
; TITLE OF INVENTION:  ANTI-THROMBIN POLYPEPTIDES
; NUMBER OF SEQUENCES:  59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE:  OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE:  P.C.
; STREET:  1755 Jefferson Davis Highway, Fourth Floor
; CITY:  Arlington
; STATE:  Virginia
; COUNTRY:  U.S.A.

```

```

; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/842,089E
; FILING DATE: 26-FEB-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Oblon, No. 5356875man F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 769-265-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)412-3000
; TELEFAX: (703)413-2220
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: Hirudinaria manillensis
; FEATURE:
; NAME/KEY: Region
; LOCATION: 1..11
; OTHER INFORMATION: /note= "This sequence corresponds
; OTHER INFORMATION: to amino acids 37-47 of SEQ ID NO:1."
US-07-842-089E-17

```

```

Query Match          27.3%; Score 3; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

```

```

Qy      9 KPK 11
      |||
Db      9 KPK 11

```

#### RESULT 47

US-08-030-731A-48

```

; Sequence 48, Application US/08030731A
; Patent No. 5426036
; GENERAL INFORMATION:
; APPLICANT: Koller, Klaus-Peter
; APPLICANT: Riess, Guenther Johannes
; APPLICANT: Uhlmann, Eugen
; APPLICANT: Wallmeier, Holger
; TITLE OF INVENTION: Processes for the Preparation of Foreign
; TITLE OF INVENTION: Proteins in Streptomyces
; NUMBER OF SEQUENCES: 48
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner

```

;  
; STREET: 1300 I Street, N.W., Suite 700  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20005-3315  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/030,731A  
; FILING DATE: 12-MAR-1993  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/189,840  
; FILING DATE: 03-MAY-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/430,622  
; FILING DATE: 01-NOV-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/687,610  
; FILING DATE: 19-APR-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/735,757  
; FILING DATE: 29-JUL-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: DE P 37 14 866.4  
; FILING DATE: 05-MAY-1987  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: DE P 38 37 273.8  
; FILING DATE: 03-NOV-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: DE P 39 27 449.7  
; FILING DATE: 19-AUG-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: DE P 40 12 818.0  
; FILING DATE: 21-APR-1990  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Kirschner Michael K.  
; REGISTRATION NUMBER: 34,851  
; REFERENCE/DOCKET NUMBER: 02481-0593-02000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-408-4000  
; TELEFAX: 202-408-4400  
; INFORMATION FOR SEQ ID NO: 48:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FEATURE:  
; NAME/KEY: Region  
; LOCATION: 8  
; OTHER INFORMATION: /note= "Xaa represents a  
; OTHER INFORMATION: hydrophobic region comprising 10 to 25 amino  
; OTHER INFORMATION: acids."



US-08-030-731A-48

Query Match 27.3%; Score 3; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 4 RAL 6

RESULT 48

US-08-264-485-16

; Sequence 16, Application US/08264485

; Patent No. 5439820

; GENERAL INFORMATION:

; APPLICANT: SARMIENTOS, PAOLO

; APPLICANT: DE TAXIS DU POET, PHILIPPE

; APPLICANT: NITTI, GIAMPAOLO

; APPLICANT: SCACHERI, EMANUELA

; TITLE OF INVENTION: ANTI-THROMBIN POLYPEPTIDES

; NUMBER OF SEQUENCES: 59

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,

; ADDRESSEE: P.C.

; STREET: 1755 Jefferson Davis Highway, Fourth Floor

; CITY: Arlington

; STATE: Virginia

; COUNTRY: U.S.A.

; ZIP: 22202

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/264,485

; FILING DATE: 23-JUN-1994

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/842,089

; FILING DATE: 26-FEB-1992

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Oblon, No. 5439820man F.

; REGISTRATION NUMBER: 24,618

; REFERENCE/DOCKET NUMBER: 769-265-0

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (703)412-3000

; TELEFAX: (703)413-2220

; TELEX: 248855 OPAT UR

; INFORMATION FOR SEQ ID NO: 16:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 11 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; ORIGINAL SOURCE:  
; ORGANISM: Hirudinaria manillensis  
; FEATURE:  
; NAME/KEY: Region  
; LOCATION: 1..11  
; OTHER INFORMATION: /note= "This sequence corresponds  
; OTHER INFORMATION: to amino acids 37-47 of SEQ ID NO:1."  
US-08-264-485-16

Query Match 27.3%; Score 3; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KPK 11  
|||  
Db 9 KPK 11

RESULT 49

US-08-264-485-17

; Sequence 17, Application US/08264485  
; Patent No. 5439820  
; GENERAL INFORMATION:  
; APPLICANT: SARMIENTOS, PAOLO  
; APPLICANT: DE TAXIS DU POET, PHILIPPE  
; APPLICANT: NITTI, GIAMPAOLO  
; APPLICANT: SCACHERI, EMANUELA  
; TITLE OF INVENTION: ANTI-THROMBIN POLYPEPTIDES  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,  
; ADDRESSEE: P.C.  
; STREET: 1755 Jefferson Davis Highway, Fourth Floor  
; CITY: Arlington  
; STATE: Virginia  
; COUNTRY: U.S.A.  
; ZIP: 22202  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/264,485  
; FILING DATE: 23-JUN-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/842,089  
; FILING DATE: 26-FEB-1992  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Oblon, No. 5439820man F.  
; REGISTRATION NUMBER: 24,618  
; REFERENCE/DOCKET NUMBER: 769-265-0  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703)412-3000  
; TELEFAX: (703)413-2220

```
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: Hirudinaria manillensis
; FEATURE:
; NAME/KEY: Region
; LOCATION: 1..11
; OTHER INFORMATION: /note= "This sequence corresponds
; OTHER INFORMATION: to amino acids 37-47 of SEQ ID NO:1."
US-08-264-485-17
```

```
Query Match          27.3%; Score 3; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy          9 KPK 11
            |||
Db          9 KPK 11
```

RESULT 50

US-07-807-062-4

```
; Sequence 4, Application US/07807062
; Patent No. 5443815
; GENERAL INFORMATION:
; APPLICANT: Dean, Richard T
; APPLICANT: McBride, William
; APPLICANT: Buttram, Scott
; TITLE OF INVENTION: Technetium-99m Labeled Peptides for
; TITLE OF INVENTION: Imaging
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Allegretti & Witcoff, Ltd.
; STREET: 10 South Wacker Drive Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/807,062
; FILING DATE: 27-NOV-1991
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5443815nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 91,875
; TELECOMMUNICATION INFORMATION:
```

; TELEPHONE: 312-715-1000  
; TELEFAX: 312-715-1234  
; TELEX: 910-221-5317  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-07-807-062-4

Query Match 27.3%; Score 3; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 4 RAL 6

RESULT 51

US-07-723-002C-14

; Sequence 14, Application US/07723002C  
; Patent No. 5447862  
; GENERAL INFORMATION:  
; APPLICANT: Heim, Jutta  
; APPLICANT: Meyhack, Bernd  
; APPLICANT: Gysler, Christof  
; APPLICANT: Visser, Jacob  
; APPLICANT: Kester, Hermanus Cornelis Maria  
; TITLE OF INVENTION: No. 5447862el Expression System  
; NUMBER OF SEQUENCES: 19  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CIBA-GEIGY Corporation  
; STREET: 7 Skyline Drive  
; CITY: Hawthorne  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10532  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/723,002C  
; FILING DATE: 28-JUN-1991  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: GB 8702475  
; FILING DATE: 04-FEB-1987  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 150,880  
; FILING DATE: 29-JAN-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: GB 8818046.8  
; FILING DATE: 28-JUL-1988

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 8914666.6
; FILING DATE: 26-JUN-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 384,898
; FILING DATE: 24-JUL-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Foley, Shawn P.
; REGISTRATION NUMBER: 33,071
; REFERENCE/DOCKET NUMBER: 4-16317/+/CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919)541-8615
; TELEFAX: (919)541-8689
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-723-002C-14

```

```

Query Match          27.3%; Score 3; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

```

```

Qy      1 ARA 3
        |||
Db      5 ARA 7

```

RESULT 52

US-08-111-939-7

```

; Sequence 7, Application US/08111939
; Patent No. 5460951
; GENERAL INFORMATION:
; APPLICANT: Kawai, Shinji
; APPLICANT: Takeshita, Sunao
; APPLICANT: Okazaki, Makoto
; APPLICANT: Amann, Egon
; TITLE OF INVENTION: Bone-Related Carboxypeptidase-Like
; TITLE OF INVENTION: Protein and Process for its Production
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/111,939

```

```

; FILING DATE: 26-AUG-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 324033/92
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 230029/92
; FILING DATE: 28-AUG-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Forman, David S.
; REGISTRATION NUMBER: 33,694
; REFERENCE/DOCKET NUMBER: 02481.1321-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4000
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Other
; DESCRIPTION: OSF 5.1 (antigen peptide)
; DESCRIPTION: segment of mouse OSF-5 from the 116th to
; DESCRIPTION: the 126th amino acid residue
; ORIGINAL SOURCE:
; ORGANISM: Mus musculus
US-08-111-939-7

```

```

Query Match          27.3%; Score 3; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

```

```

Qy      9 KPK 11
      |||
Db      1 KPK 3

```

# RESULT 53

```

US-08-116-733-33
; Sequence 33, Application US/08116733
; Patent No. 5516632
; GENERAL INFORMATION:
; APPLICANT: PALKER, Thomas J.
; APPLICANT: HAYNES, Barton F.
; TITLE OF INVENTION: SYNTHETIC PEPTIDES
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

```

```
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/116,733
; FILING DATE: 07-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: WILSON, MARY J.
; REGISTRATION NUMBER: 32,955
; REFERENCE/DOCKET NUMBER: 1579-33
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; TELEX: 200797 NIXN UR
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-116-733-33
```

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Query Match          27.3%; Score 3; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      8 AKP 10
        |||
Db      3 AKP 5
```

RESULT 54

US-08-081-259-5

```
; Sequence 5, Application US/08081259
; Patent No. 5585542
; GENERAL INFORMATION:
; APPLICANT: BRADY, Colin
; APPLICANT: LEE, Elizabeth
; APPLICANT: POGSON, Barry J
; APPLICANT: ORR, Glenda R
; APPLICANT: SPEIRS, James
; TITLE OF INVENTION: DNA Sequences Encoding at least part of the
; TITLE OF INVENTION: Tomato Enzyme Endopolygalacturonase PG1
; TITLE OF INVENTION: beta-Subunit
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon & Vanderhye P.C.
; STREET: 1100 No. 5585542th Glebe Road
; CITY: Arlington
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.24
; CURRENT APPLICATION DATA:
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; APPLICATION NUMBER: US/08/081,259  
 ; FILING DATE: 21-JUN-1993  
 ; CLASSIFICATION: 800  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: MITCHARD, Leonard C  
 ; REGISTRATION NUMBER: 29,009  
 ; REFERENCE/DOCKET NUMBER: 47-51  
 ; INFORMATION FOR SEQ ID NO: 5:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 11 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 US-08-081-259-5

Query Match 27.3%; Score 3; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 ALN 5  
 |||  
 Db 1 ALN 3

RESULT 55

US-08-687-226-69

; Sequence 69, Application US/08687226  
 ; Patent No. 5686068  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Melief, Cornelis J. M.; Visseren, M. W.;  
 ; APPLICANT: van der Burg, Sjoerd; van der Bruggen, Pierre;  
 ; APPLICANT: Boon-Falleur, Thierry  
 ; TITLE OF INVENTION: Isolated Peptides Derived From  
 ; TITLE OF INVENTION: MAGE-2, Cytolytic T Cells Specific To Complexes Of  
 ; TITLE OF INVENTION: Peptides And HLA-A2 Molecules, And Uses Thereof  
 ; NUMBER OF SEQUENCES: 72  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Felfe & Lynch  
 ; STREET: 805 Third Avenue  
 ; CITY: New York City  
 ; STATE: New York  
 ; COUNTRY: USA  
 ; ZIP: 10022  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage  
 ; COMPUTER: IBM PS/2  
 ; OPERATING SYSTEM: PC-DOS  
 ; SOFTWARE: Wordperfect  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/687,226  
 ; FILING DATE: 25-JULY-1996  
 ; CLASSIFICATION: 530  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/217,188  
 ; FILING DATE: 24-MARCH-1994  
 ; ATTORNEY/AGENT INFORMATION:



; NAME: Hanson, No. 5686068man D.  
; REGISTRATION NUMBER: 30,946  
; REFERENCE/DOCKET NUMBER: LUD 5447  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 688-9200  
; TELEFAX: (212) 838-3884  
; INFORMATION FOR SEQ ID NO: 69:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acid residues  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-687-226-69

Query Match 27.3%; Score 3; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 6 RAL 8

RESULT 56

US-08-465-167A-9

; Sequence 9, Application US/08465167A  
; Patent No. 5750395  
; GENERAL INFORMATION:  
; APPLICANT: Fikes, John D.  
; APPLICANT: Livingston, Brian D.  
; APPLICANT: Sette, Alessandro D.  
; APPLICANT: Sidney, John C.  
; TITLE OF INVENTION: DNA ENCODING MAGE-1 C-TERMINAL  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES (as amended)  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, 8th Floor  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 98111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/465,167A  
; FILING DATE: 05-JUN-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/103,623  
; FILING DATE: 06-AUG-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Parmelee, Steven W.  
; REGISTRATION NUMBER: 31,990

; REFERENCE/DOCKET NUMBER: 14137-60-1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 206-467-9600  
; TELEFAX: 415-576-0300  
; INFORMATION FOR SEQ ID NO: 9:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-465-167A-9

Query Match 27.3%; Score 3; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 1 RAL 3

RESULT 57

US-08-471-780C-124  
; Sequence 124, Application US/08471780C  
; Patent No. 5759808  
; GENERAL INFORMATION:  
; APPLICANT: Casterman, Cecile  
; APPLICANT: Hamers, Raymond  
; TITLE OF INVENTION: Immunoglobulins Devoid of Light Chains  
; NUMBER OF SEQUENCES: 130  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner  
; STREET: 1300 I Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20005-3315  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/471,780C  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/106,944  
; FILING DATE: 17-AUG-1993  
; APPLICATION NUMBER: FR 92402326.0  
; FILING DATE: 21-AUG-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: FR 93401310.3  
; FILING DATE: 21-MAY-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Potter, Jane E.R.

; REGISTRATION NUMBER: 33,332  
; REFERENCE/DOCKET NUMBER: 04958.0008-00000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-408-4000  
; TELEFAX: 202-408-4400  
; INFORMATION FOR SEQ ID NO: 124:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-471-780C-124

Query Match 27.3%; Score 3; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 WGA 8  
|||  
Db 1 WGA 3

RESULT 58

US-08-191-866D-71  
; Sequence 71, Application US/08191866D  
; Patent No. 5783195  
; GENERAL INFORMATION:  
; APPLICANT: Cochran, Mark D  
; APPLICANT: Macdonald, Richard D.  
; TITLE OF INVENTION: Recombinant Infectious Bovine  
; TITLE OF INVENTION: Rhinotracheitis Virus S-IBR-052 And Uses Thereof  
; NUMBER OF SEQUENCES: 99  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: John P. White  
; STREET: 1185 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/191,866D  
; FILING DATE: 4 February 1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: White, John P.  
; REGISTRATION NUMBER: 28,678  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 278-0400  
; TELEFAX: (212) 391-0525  
; TELEX: 422523  
; INFORMATION FOR SEQ ID NO: 71:  
; SEQUENCE CHARACTERISTICS:

; LENGTH: 11 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-191-866D-71

Query Match 27.3%; Score 3; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AKP 10  
|||  
Db 4 AKP 6

RESULT 59

US-08-467-282B-124

; Sequence 124, Application US/08467282B  
; Patent No. 5800988

; GENERAL INFORMATION:

; APPLICANT: Casterman, Cecile  
; APPLICANT: Hamers, Raymond  
; TITLE OF INVENTION: Immunoglobulins Devoid of Light Chains  
; NUMBER OF SEQUENCES: 130  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner  
; STREET: 1300 I Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20005-3315

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/467,282B  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 536

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/106,944  
; FILING DATE: 17-AUG-1993  
; APPLICATION NUMBER: FR 92402326.0  
; FILING DATE: 21-AUG-1992

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: FR 93401310.3  
; FILING DATE: 21-MAY-1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Potter, Jane E.R.  
; REGISTRATION NUMBER: 33,332  
; REFERENCE/DOCKET NUMBER: 04958.0008-00000

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-408-4000  
; TELEFAX: 202-408-4400

; INFORMATION FOR SEQ ID NO: 124:

; SEQUENCE CHARACTERISTICS:

;     LENGTH: 11 amino acids  
;     TYPE: amino acid  
;     TOPOLOGY: linear  
;     MOLECULE TYPE: peptide  
US-08-467-282B-124

Query Match                   27.3%; Score 3; DB 1; Length 11;  
Best Local Similarity   100.0%; Pred. No. 2.5e+03;  
Matches       3; Conservative     0; Mismatches     0; Indels       0; Gaps       0;

Qy           6 WGA 8  
              |||  
Db           1 WGA 3

RESULT 60

US-08-462-212-4

; Sequence 4, Application US/08462212  
; Patent No. 5807537  
; GENERAL INFORMATION:  
;   APPLICANT: Dean, Richard T  
;   APPLICANT: McBride, William  
;   APPLICANT: Buttram, Scott  
;   TITLE OF INVENTION: Technetium-99m Labeled Peptides for  
;   TITLE OF INVENTION: Imaging  
;   NUMBER OF SEQUENCES: 4  
;   CORRESPONDENCE ADDRESS:  
;   ADDRESSEE: Banner & Witcoff, Ltd.  
;   STREET: 10 South Wacker Drive Suite 3000  
;   CITY: Chicago  
;   STATE: Illinois  
;   COUNTRY: USA  
;   ZIP: 60606  
; COMPUTER READABLE FORM:  
;   MEDIUM TYPE: Floppy disk  
;   COMPUTER: IBM PC compatible  
;   OPERATING SYSTEM: PC-DOS/MS-DOS  
;   SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
;   APPLICATION NUMBER: US/08/462,212  
;   FILING DATE: 06-JUN-1995  
;   CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
;   NAME: No. 5807537nan, Kevin E  
;   REGISTRATION NUMBER: 35,303  
;   REFERENCE/DOCKET NUMBER: 91,875-R  
; TELECOMMUNICATION INFORMATION:  
;   TELEPHONE: 312-715-1000  
;   TELEFAX: 312-715-1234  
;   TELEX: 910-221-5317  
; INFORMATION FOR SEQ ID NO: 4:  
;   SEQUENCE CHARACTERISTICS:  
;   LENGTH: 11 amino acids  
;   TYPE: amino acid  
;   TOPOLOGY: linear  
;   MOLECULE TYPE: peptide  
US-08-462-212-4

Query Match 27.3%; Score 3; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 4 RAL 6

RESULT 61

US-08-471-741-4

; Sequence 4, Application US/08471741

; Patent No. 5814297

; GENERAL INFORMATION:

; APPLICANT: Dean, Richard T

; APPLICANT: McBride, William

; APPLICANT: Buttram, Scott

; TITLE OF INVENTION: Technetium-99m Labeled Peptides for

; TITLE OF INVENTION: Imaging

; NUMBER OF SEQUENCES: 4

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Banner & Allegretti, Ltd.

; STREET: 10 South Wacker Drive Suite 3000

; CITY: Chicago

; STATE: Illinois

; COUNTRY: USA

; ZIP: 60606

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/471,741

; FILING DATE: 06-JUN-1995

; CLASSIFICATION: 424

; ATTORNEY/AGENT INFORMATION:

; NAME: No. 5814297nan, Kevin E

; REGISTRATION NUMBER: 35,303

; REFERENCE/DOCKET NUMBER: 91,875-Q

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 312-715-1000

; TELEFAX: 312-715-1234

; TELEX: 910-221-5317

; INFORMATION FOR SEQ ID NO: 4:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 11 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-471-741-4

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 4 RAL 6

RESULT 62

US-08-471-282A-124

; Sequence 124, Application US/08471282A  
; Patent No. 5840853  
; GENERAL INFORMATION:  
; APPLICANT: Casterman, Cecile  
; APPLICANT: Hamers, Raymond  
; TITLE OF INVENTION: Immunoglobulins Devoid of Light Chains  
; NUMBER OF SEQUENCES: 130  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner  
; STREET: 1300 I Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20005-3315  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/471,282A  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/106,944  
; FILING DATE: 17-AUG-1993  
; APPLICATION NUMBER: FR 92402326.0  
; FILING DATE: 21-AUG-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: FR 93401310.3  
; FILING DATE: 21-MAY-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Potter, Jane E.R.  
; REGISTRATION NUMBER: 33,332  
; REFERENCE/DOCKET NUMBER: 04958.0008-00000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-408-4000  
; TELEFAX: 202-408-4400  
; INFORMATION FOR SEQ ID NO: 124:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-471-282A-124

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 WGA 8  
|||  
Db 1 WGA 3

RESULT 63

US-08-733-505A-28

; Sequence 28, Application US/08733505A  
; Patent No. 5856445  
; GENERAL INFORMATION:  
; APPLICANT: KORSMEYER, STANLEY J.  
; TITLE OF INVENTION: SERINE SUBSTITUTED MUTANTS OF  
; TITLE OF INVENTION: BCL-XL/BCL-2 ASSOCIATED CELL DEATH REGULATOR  
; NUMBER OF SEQUENCES: 60  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: HOWELL & HAFERKAMP, L.C.  
; STREET: 7733 FORSYTH BLVD., SUITE 1400  
; CITY: ST. LOUIS  
; STATE: MISSOURI  
; COUNTRY: USA  
; ZIP: 63105  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/733,505A  
; FILING DATE:  
; CLASSIFICATION: 530  
; ATTORNEY/AGENT INFORMATION:  
; NAME: HOLLAND, DONALD R.  
; REGISTRATION NUMBER: 35,197  
; REFERENCE/DOCKET NUMBER: 965458  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (314) 727-5188  
; TELEFAX: (314) 727-6092  
; INFORMATION FOR SEQ ID NO: 28:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-733-505A-28

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 NWG 7  
|||  
Db 5 NWG 7

RESULT 64

US-08-733-505A-31



```

; Sequence 31, Application US/08733505A
; Patent No. 5856445
; GENERAL INFORMATION:
; APPLICANT: KORSMEYER, STANLEY J.
; TITLE OF INVENTION: SERINE SUBSTITUTED MUTANTS OF
; TITLE OF INVENTION: BCL-XL/BCL-2 ASSOCIATED CELL DEATH REGULATOR
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HOWELL & HAERKAMP, L.C.
; STREET: 7733 FORSYTH BLVD., SUITE 1400
; CITY: ST. LOUIS
; STATE: MISSOURI
; COUNTRY: USA
; ZIP: 63105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/733,505A
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: HOLLAND, DONALD R.
; REGISTRATION NUMBER: 35,197
; REFERENCE/DOCKET NUMBER: 965458
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (314) 727-5188
; TELEFAX: (314) 727-6092
; INFORMATION FOR SEQ ID NO: 31:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-733-505A-31

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```

Query Match          27.3%; Score 3; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches      3; Conservative    0; Mismatches    0; Indels      0; Gaps      0;

```

```

Qy      5 NWG 7
      |||
Db      5 NWG 7

```

RESULT 65

US-08-733-505A-33

```

; Sequence 33, Application US/08733505A
; Patent No. 5856445
; GENERAL INFORMATION:
; APPLICANT: KORSMEYER, STANLEY J.
; TITLE OF INVENTION: SERINE SUBSTITUTED MUTANTS OF
; TITLE OF INVENTION: BCL-XL/BCL-2 ASSOCIATED CELL DEATH REGULATOR
; NUMBER OF SEQUENCES: 60

```

```

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HOWELL & HAFERKAMP, L.C.
; STREET: 7733 FORSYTH BLVD., SUITE 1400
; CITY: ST. LOUIS
; STATE: MISSOURI
; COUNTRY: USA
; ZIP: 63105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/733,505A
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: HOLLAND, DONALD R.
; REGISTRATION NUMBER: 35,197
; REFERENCE/DOCKET NUMBER: 965458
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (314) 727-5188
; TELEFAX: (314) 727-6092
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-733-505A-33

```

```

Query Match          27.3%; Score 3; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

```

```

Qy      5 NWG 7
      |||
Db      5 NWG 7

```

RESULT 66

US-08-733-505A-36

```

; Sequence 36, Application US/08733505A
; Patent No. 5856445
; GENERAL INFORMATION:
; APPLICANT: KORSMEYER, STANLEY J.
; TITLE OF INVENTION: SERINE SUBSTITUTED MUTANTS OF
; TITLE OF INVENTION: BCL-XL/BCL-2 ASSOCIATED CELL DEATH REGULATOR
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HOWELL & HAFERKAMP, L.C.
; STREET: 7733 FORSYTH BLVD., SUITE 1400
; CITY: ST. LOUIS
; STATE: MISSOURI
; COUNTRY: USA
; ZIP: 63105

```

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/733,505A
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: HOLLAND, DONALD R.
; REGISTRATION NUMBER: 35,197
; REFERENCE/DOCKET NUMBER: 965458
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (314) 727-5188
; TELEFAX: (314) 727-6092
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-733-505A-36

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Query Match          27.3%; Score 3; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      2 RAL 4
      |||
Db      8 RAL 10

```

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RESULT 67
US-08-633-148-20
; Sequence 20, Application US/08633148
; Patent No. 5864018
; GENERAL INFORMATION:
; APPLICANT: MORSER, MICHAEL J.
; APPLICANT: NAGASHIMA, MARIKO
; APPLICANT: HOLLANDER, DORIS A.
; TITLE OF INVENTION: ANTIBODIES TO ADVANCED GLYCOSYLATION
; TITLE OF INVENTION: END-PRODUCT RECEPTOR POLYPEPTIDES AND USES THEREFOR
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: TOWNSEND & TOWNSENT & CREW LLP
; STREET: TWO EMBARCADERO CENTER, 8TH FLOOR
; CITY: SAN FRANCISCO
; STATE: CALIFORNIA
; COUNTRY: U.S.A.
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/633,148
; FILING DATE: 16-APR-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MURPHY ESQ., MATTHEW B.
; REGISTRATION NUMBER: 39,787
; REFERENCE/DOCKET NUMBER: 014618-005600US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 326-2400
; TELEFAX: (415) 326-2422
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-633-148-20

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Query Match          27.3%; Score 3; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

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Qy      2 RAL 4
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Db      9 RAL 11

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RESULT 68

US-08-244-336-4

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; Sequence 4, Application US/08244336
; Patent No. 5866097
; GENERAL INFORMATION:
; APPLICANT: Dean, Richard T
; APPLICANT: McBride, William
; APPLICANT: Buttram, Scott
; TITLE OF INVENTION: Technetium-99m Labeled Peptides for
; TITLE OF INVENTION: Imaging
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Allegretti, Ltd.
; STREET: 10 South Wacker Drive Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,336
; FILING DATE: 28-OCT-1994
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:

```

; NAME: No. 5866097nan, Kevin E  
; REGISTRATION NUMBER: 35,303  
; REFERENCE/DOCKET NUMBER: 91,875-I  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 312-715-1000  
; TELEFAX: 312-715-1234  
; TELEX: 910-221-5317  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-244-336-4

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 4 RAL 6

RESULT 69

US-08-251-472-1

; Sequence 1, Application US/08251472  
; Patent No. 5871746  
; GENERAL INFORMATION:  
; APPLICANT: BOUTILLON, CHRISTOPHE; MARTINON,  
; APPLICANT: FREDERIC; GRAS-MASSE, HELENE;  
; APPLICANT: GOMARD, ELISABETH; SERGHERAERT,  
; APPLICANT: CHRISTIAN; MAGNE, REMY; TARTAR,  
; APPLICANT: ANDRE; LEVY, JEAN-PAUL  
; TITLE OF INVENTION: CYTOTOXIC T LYMPHOCYTE  
; TITLE OF INVENTION: -INDUCING LIPOPEPTIDES AND USE AS VACCINES  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BIERMAN & MUSERLIAN  
; STREET: 600 THIRD AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10016  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/251,472  
; FILING DATE: 31-MAY-1994  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: MUSERLIAN, CHARLES A  
; REGISTRATION NUMBER: 19,683  
; REFERENCE/DOCKET NUMBER: 102.1511

```

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 661-8000
; TELEFAX: (212) 661-8002
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Influenza
; FEATURE:
; LOCATION: NP 147-158
US-08-251-472-1

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Query Match          27.3%; Score 3; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

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```

Qy      2 RAL 4
        |||
Db      6 RAL 8

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RESULT 70
US-08-185-949B-71
; Sequence 71, Application US/08185949B
; Patent No. 5874279
; GENERAL INFORMATION:
; APPLICANT: Mark D. Cochran
; APPLICANT: Richard D. Macdonald
; TITLE OF INVENTION: Recombinant Infectious Bovine
; TITLE OF INVENTION: Rhinotracheitis Virus
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: John P. White
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM 330 466 DX2
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/185,949B
; FILING DATE: 03-NOV-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: ,678
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 278-0400

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; TELEFAX: (212) 278-0525  
; INFORMATION FOR SEQ ID NO: 71:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-185-949B-71

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AKP 10  
|||  
Db 4 AKP 6

RESULT 71

US-08-466-710C-124  
; Sequence 124, Application US/08466710C  
; Patent No. 5874541  
; GENERAL INFORMATION:  
; APPLICANT: Casterman, Cecile  
; APPLICANT: Hamers, Raymond  
; TITLE OF INVENTION: Immunoglobulins Devoid of Light Chains  
; NUMBER OF SEQUENCES: 130  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner  
; STREET: 1300 I Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20005-3315  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/466,710C  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/106,944  
; FILING DATE: 17-AUG-1993  
; APPLICATION NUMBER: FR 92402326.0  
; FILING DATE: 21-AUG-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: FR 93401310.3  
; FILING DATE: 21-MAY-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Potter, Jane E.R.  
; REGISTRATION NUMBER: 33,332  
; REFERENCE/DOCKET NUMBER: 04958.0008-00000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-408-4000

; TELEFAX: 202-408-4400  
; INFORMATION FOR SEQ ID NO: 124:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-466-710C-124

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 WGA 8  
|||  
Db 1 WGA 3

RESULT 72

US-08-968-676-12

; Sequence 12, Application US/08968676  
; Patent No. 5919639  
; GENERAL INFORMATION:  
; APPLICANT: Humphreys, Robert E  
; APPLICANT: Adams, Sharlene  
; APPLICANT: Xu, Minzhen  
; TITLE OF INVENTION: IMMUNOTHERAPY BY MODULATION OF ANTIGEN  
; NUMBER OF SEQUENCES: 165  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Kevin M. Farrell, P.C.  
; STREET: P.O. Box 999  
; CITY: York Harbor  
; STATE: ME  
; COUNTRY: USA  
; ZIP: 03911  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/968,676  
; FILING DATE:  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Farrell, Kevin M  
; REGISTRATION NUMBER: 35,505  
; REFERENCE/DOCKET NUMBER: REH-9601  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (207) 363-0558  
; TELEFAX: (207) 363-0528  
; INFORMATION FOR SEQ ID NO: 12:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear



; MOLECULE TYPE: peptide  
US-08-968-676-12

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AKP 10  
|||  
Db 4 AKP 6

RESULT 73

US-08-706-741B-63

; Sequence 63, Application US/08706741B  
; Patent No. 5955593  
; GENERAL INFORMATION:  
; APPLICANT: KORSMEYER, STANLEY J.  
; TITLE OF INVENTION: BH3 INTERACTING DOMAIN DEATH AGONIST  
; NUMBER OF SEQUENCES: 88  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: HOWELL & HAFERKAMP, L.C.  
; STREET: 7733 FORSYTH BLVD., SUITE 1400  
; CITY: ST. LOUIS  
; STATE: MISSOURI  
; COUNTRY: USA  
; ZIP: 63146  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/706,741B  
; FILING DATE: 09-SEP-1996  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: HOLLAND, DONALD R.  
; REGISTRATION NUMBER: 35,197  
; REFERENCE/DOCKET NUMBER: 965017  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (314) 727-5188  
; TELEFAX: (314) 727-6092  
; INFORMATION FOR SEQ ID NO: 63:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-706-741B-63

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 NWG 7

Db                    |||  
                      5 NWG 7

RESULT 74

US-08-706-741B-66  
; Sequence 66, Application US/08706741B  
; Patent No. 5955593  
; GENERAL INFORMATION:  
; APPLICANT: KORSMEYER, STANLEY J.  
; TITLE OF INVENTION: BH3 INTERACTING DOMAIN DEATH AGONIST  
; NUMBER OF SEQUENCES: 88  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: HOWELL & HAERKAMP, L.C.  
; STREET: 7733 FORSYTH BLVD., SUITE 1400  
; CITY: ST. LOUIS  
; STATE: MISSOURI  
; COUNTRY: USA  
; ZIP: 63146  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/706,741B  
; FILING DATE: 09-SEP-1996  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: HOLLAND, DONALD R.  
; REGISTRATION NUMBER: 35,197  
; REFERENCE/DOCKET NUMBER: 965017  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (314) 727-5188  
; TELEFAX: (314) 727-6092  
; INFORMATION FOR SEQ ID NO: 66:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-706-741B-66

Query Match                    27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity       100.0%; Pred. No. 2.5e+03;  
Matches       3; Conservative       0; Mismatches       0; Indels       0; Gaps       0;

Qy                    5 NWG 7  
                      |||  
Db                    5 NWG 7

RESULT 75

US-08-706-741B-68  
; Sequence 68, Application US/08706741B  
; Patent No. 5955593

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; GENERAL INFORMATION:
; APPLICANT: KORSMEYER, STANLEY J.
; TITLE OF INVENTION: BH3 INTERACTING DOMAIN DEATH AGONIST
; NUMBER OF SEQUENCES: 88
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HOWELL & HAUSERKAMP, L.C.
; STREET: 7733 FORSYTH BLVD., SUITE 1400
; CITY: ST. LOUIS
; STATE: MISSOURI
; COUNTRY: USA
; ZIP: 63146
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/706,741B
; FILING DATE: 09-SEP-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: HOLLAND, DONALD R.
; REGISTRATION NUMBER: 35,197
; REFERENCE/DOCKET NUMBER: 965017
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (314) 727-5188
; TELEFAX: (314) 727-6092
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-706-741B-68

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Query Match          27.3%; Score 3; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          5 NWG 7
            |||
Db          5 NWG 7

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Job time : 11.3077 secs

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OM protein - protein search, using sw model

Run on: April 8, 2004, 15:47:33 ; Search time 30.3077 Seconds  
(without alignments)  
95.432 Million cell updates/sec

Title: US-09-787-443A-3  
Perfect score: 11  
Sequence: 1 ARALNWGAKPK 11

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 1073127 seqs, 262937947 residues

Word size : 0

Total number of hits satisfying chosen parameters: 9223

Minimum DB seq length: 11

Maximum DB seq length: 11

Post-processing: Listing first 100 summaries

Database : Published\_Applications\_AA:\*

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- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep:\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep:\*
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- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep:\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep:\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep:\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep:\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep:\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result	Query					
No.	Score	Match	Length	DB	ID	Description

1	4	36.4	11	15	US-10-149-138-528	Sequence 528, App
2	4	36.4	11	15	US-10-149-138-889	Sequence 889, App
3	4	36.4	11	15	US-10-149-138-1261	Sequence 1261, Ap
4	4	36.4	11	15	US-10-149-138-1900	Sequence 1900, Ap
5	4	36.4	11	15	US-10-149-138-2623	Sequence 2623, Ap
6	4	36.4	11	15	US-10-149-138-2646	Sequence 2646, Ap
7	4	36.4	11	15	US-10-149-138-3305	Sequence 3305, Ap
8	3	27.3	11	8	US-08-452-843A-15	Sequence 15, Appl
9	3	27.3	11	9	US-09-861-294-36	Sequence 36, Appl
10	3	27.3	11	9	US-09-850-351A-65	Sequence 65, Appl
11	3	27.3	11	9	US-09-900-147-9	Sequence 9, Appli
12	3	27.3	11	9	US-09-758-128-40	Sequence 40, Appl
13	3	27.3	11	9	US-09-359-325A-10	Sequence 10, Appl
14	3	27.3	11	9	US-09-359-325A-11	Sequence 11, Appl
15	3	27.3	11	9	US-09-848-537A-12	Sequence 12, Appl
16	3	27.3	11	9	US-09-833-079-2	Sequence 2, Appli
17	3	27.3	11	9	US-09-833-079-17	Sequence 17, Appl
18	3	27.3	11	9	US-09-949-196-17	Sequence 17, Appl
19	3	27.3	11	9	US-09-949-196-18	Sequence 18, Appl
20	3	27.3	11	9	US-09-949-196-19	Sequence 19, Appl
21	3	27.3	11	9	US-09-945-249-22	Sequence 22, Appl
22	3	27.3	11	9	US-09-945-249-27	Sequence 27, Appl
23	3	27.3	11	9	US-09-758-426-40	Sequence 40, Appl
24	3	27.3	11	9	US-09-017-743C-123	Sequence 123, App
25	3	27.3	11	9	US-09-017-743C-125	Sequence 125, App
26	3	27.3	11	9	US-09-017-743C-127	Sequence 127, App
27	3	27.3	11	9	US-09-758-198-40	Sequence 40, Appl
28	3	27.3	11	9	US-09-879-572A-23	Sequence 23, Appl
29	3	27.3	11	9	US-09-879-572A-25	Sequence 25, Appl
30	3	27.3	11	10	US-09-983-802-596	Sequence 596, App
31	3	27.3	11	10	US-09-956-940-53	Sequence 53, Appl
32	3	27.3	11	10	US-09-791-393-187	Sequence 187, App
33	3	27.3	11	10	US-09-791-389-187	Sequence 187, App
34	3	27.3	11	10	US-09-906-393A-7	Sequence 7, Appli
35	3	27.3	11	10	US-09-882-291-45	Sequence 45, Appl
36	3	27.3	11	10	US-09-882-291-46	Sequence 46, Appl
37	3	27.3	11	10	US-09-882-291-47	Sequence 47, Appl
38	3	27.3	11	10	US-09-861-661-40	Sequence 40, Appl
39	3	27.3	11	10	US-09-860-840-14	Sequence 14, Appl
40	3	27.3	11	10	US-09-775-052-4	Sequence 4, Appli
41	3	27.3	11	10	US-09-775-052-5	Sequence 5, Appli
42	3	27.3	11	10	US-09-775-052-6	Sequence 6, Appli
43	3	27.3	11	10	US-09-775-052-39	Sequence 39, Appl
44	3	27.3	11	10	US-09-775-052-40	Sequence 40, Appl
45	3	27.3	11	10	US-09-775-052-41	Sequence 41, Appl
46	3	27.3	11	10	US-09-775-052-55	Sequence 55, Appl
47	3	27.3	11	10	US-09-775-052-56	Sequence 56, Appl
48	3	27.3	11	10	US-09-775-052-57	Sequence 57, Appl
49	3	27.3	11	10	US-09-847-946A-128	Sequence 128, App
50	3	27.3	11	10	US-09-847-946A-129	Sequence 129, App
51	3	27.3	11	10	US-09-876-904A-531	Sequence 531, App
52	3	27.3	11	10	US-09-876-904A-578	Sequence 578, App
53	3	27.3	11	10	US-09-876-904A-597	Sequence 597, App
54	3	27.3	11	10	US-09-876-904A-622	Sequence 622, App
55	3	27.3	11	10	US-09-563-222-177	Sequence 177, App
56	3	27.3	11	10	US-09-992-665-12	Sequence 12, Appl

57	3	27.3	11	10	US-09-852-910-248	Sequence 248, App
58	3	27.3	11	10	US-09-848-781-3	Sequence 3, Appli
59	3	27.3	11	11	US-09-261-894-12	Sequence 12, Appl
60	3	27.3	11	11	US-09-791-551-105	Sequence 105, App
61	3	27.3	11	12	US-09-973-278-426	Sequence 426, App
62	3	27.3	11	12	US-10-398-104-183	Sequence 183, App
63	3	27.3	11	12	US-10-149-135-124	Sequence 124, App
64	3	27.3	11	12	US-10-149-135-235	Sequence 235, App
65	3	27.3	11	12	US-10-149-135-322	Sequence 322, App
66	3	27.3	11	12	US-10-149-135-426	Sequence 426, App
67	3	27.3	11	12	US-10-149-135-535	Sequence 535, App
68	3	27.3	11	12	US-10-149-135-663	Sequence 663, App
69	3	27.3	11	12	US-10-149-135-791	Sequence 791, App
70	3	27.3	11	12	US-10-149-135-832	Sequence 832, App
71	3	27.3	11	12	US-10-149-135-949	Sequence 949, App
72	3	27.3	11	12	US-10-149-135-966	Sequence 966, App
73	3	27.3	11	12	US-10-149-135-1053	Sequence 1053, Ap
74	3	27.3	11	12	US-10-149-135-1106	Sequence 1106, Ap
75	3	27.3	11	12	US-10-149-135-1215	Sequence 1215, Ap
76	3	27.3	11	12	US-10-149-135-1488	Sequence 1488, Ap
77	3	27.3	11	12	US-10-149-135-1660	Sequence 1660, Ap
78	3	27.3	11	12	US-10-149-135-1764	Sequence 1764, Ap
79	3	27.3	11	12	US-10-149-135-1856	Sequence 1856, Ap
80	3	27.3	11	12	US-10-149-135-1860	Sequence 1860, Ap
81	3	27.3	11	12	US-10-149-135-1888	Sequence 1888, Ap
82	3	27.3	11	12	US-10-149-135-2459	Sequence 2459, Ap
83	3	27.3	11	12	US-10-149-135-2460	Sequence 2460, Ap
84	3	27.3	11	12	US-10-149-135-2476	Sequence 2476, Ap
85	3	27.3	11	12	US-10-149-135-2477	Sequence 2477, Ap
86	3	27.3	11	12	US-10-253-286-6	Sequence 6, Appli
87	3	27.3	11	12	US-09-848-948-1	Sequence 1, Appli
88	3	27.3	11	13	US-10-041-030-36	Sequence 36, Appl
89	3	27.3	11	14	US-10-077-555-5	Sequence 5, Appli
90	3	27.3	11	14	US-10-077-555-6	Sequence 6, Appli
91	3	27.3	11	14	US-10-059-261-35	Sequence 35, Appl
92	3	27.3	11	14	US-10-059-261-143	Sequence 143, App
93	3	27.3	11	14	US-10-057-789-233	Sequence 233, App
94	3	27.3	11	14	US-10-196-730-12	Sequence 12, Appl
95	3	27.3	11	14	US-10-229-915-22	Sequence 22, Appl
96	3	27.3	11	14	US-10-229-915-23	Sequence 23, Appl
97	3	27.3	11	14	US-10-229-915-24	Sequence 24, Appl
98	3	27.3	11	14	US-10-196-793A-47	Sequence 47, Appl
99	3	27.3	11	14	US-10-212-628-233	Sequence 233, App
100	3	27.3	11	14	US-10-197-000-6	Sequence 6, Appli

#### ALIGNMENTS

##### RESULT 1

US-10-149-138-528

; Sequence 528, Application US/10149138

; Publication No. US20040018971A1

##### ; GENERAL INFORMATION:

; APPLICANT: Fikes, John

; APPLICANT: Sette, Alessandro

; APPLICANT: Sidney, John

; APPLICANT: Southwood, Scott  
 ; APPLICANT: Chesnut, Robert  
 ; APPLICANT: Celis, Esteban  
 ; APPLICANT: Keogh, Elissa  
 ; TITLE OF INVENTION: Inducing Cellular Immune Responses to  
 ; TITLE OF INVENTION: HER2/neu Using Peptide and Nucleic Acid Compositions  
 ; FILE REFERENCE: 2060.0140001  
 ; CURRENT APPLICATION NUMBER: US/10/149,138  
 ; CURRENT FILING DATE: 2002-06-10  
 ; PRIOR APPLICATION NUMBER: PCT/US00/33591  
 ; PRIOR FILING DATE: 2000-12-11  
 ; PRIOR APPLICATION NUMBER: US 09/458,299  
 ; PRIOR FILING DATE: 1999-12-11  
 ; NUMBER OF SEQ ID NOS: 4641  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 528  
 ; LENGTH: 11  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Artificially Synthesized Peptide  
 US-10-149-138-528

Query Match 36.4%; Score 4; DB 15; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 7.7e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GAKP 10  
 ||||  
 Db 4 GAKP 7

# RESULT 2

US-10-149-138-889

; Sequence 889, Application US/10149138  
 ; Publication No. US20040018971A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Fikes, John  
 ; APPLICANT: Sette, Alessandro  
 ; APPLICANT: Sidney, John  
 ; APPLICANT: Southwood, Scott  
 ; APPLICANT: Chesnut, Robert  
 ; APPLICANT: Celis, Esteban  
 ; APPLICANT: Keogh, Elissa  
 ; TITLE OF INVENTION: Inducing Cellular Immune Responses to  
 ; TITLE OF INVENTION: HER2/neu Using Peptide and Nucleic Acid Compositions  
 ; FILE REFERENCE: 2060.0140001  
 ; CURRENT APPLICATION NUMBER: US/10/149,138  
 ; CURRENT FILING DATE: 2002-06-10  
 ; PRIOR APPLICATION NUMBER: PCT/US00/33591  
 ; PRIOR FILING DATE: 2000-12-11  
 ; PRIOR APPLICATION NUMBER: US 09/458,299  
 ; PRIOR FILING DATE: 1999-12-11  
 ; NUMBER OF SEQ ID NOS: 4641  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 889  
 ; LENGTH: 11

; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificially Synthesized Peptide  
US-10-149-138-889

Query Match 36.4%; Score 4; DB 15; Length 11;  
Best Local Similarity 100.0%; Pred. No. 7.7e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GAKP 10  
| | | |  
Db 1 GAKP 4

RESULT 3

US-10-149-138-1261  
; Sequence 1261, Application US/10149138  
; Publication No. US20040018971A1  
; GENERAL INFORMATION:  
; APPLICANT: Fikes, John  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; APPLICANT: Southwood, Scott  
; APPLICANT: Chesnut, Robert  
; APPLICANT: Celis, Esteban  
; APPLICANT: Keogh, Elissa  
; TITLE OF INVENTION: Inducing Cellular Immune Responses to  
; TITLE OF INVENTION: HER2/neu Using Peptide and Nucleic Acid Compositions  
; FILE REFERENCE: 2060.0140001  
; CURRENT APPLICATION NUMBER: US/10/149,138  
; CURRENT FILING DATE: 2002-06-10  
; PRIOR APPLICATION NUMBER: PCT/US00/33591  
; PRIOR FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: US 09/458,299  
; PRIOR FILING DATE: 1999-12-11  
; NUMBER OF SEQ ID NOS: 4641  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1261  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificially Synthesized Peptide  
US-10-149-138-1261

Query Match 36.4%; Score 4; DB 15; Length 11;  
Best Local Similarity 100.0%; Pred. No. 7.7e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GAKP 10  
| | | |  
Db 4 GAKP 7

RESULT 4

US-10-149-138-1900



```

; Sequence 1900, Application US/10149138
; Publication No. US20040018971A1
; GENERAL INFORMATION:
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert
; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: Inducing Cellular Immune Responses to
; TITLE OF INVENTION: HER2/neu Using Peptide and Nucleic Acid Compositions
; FILE REFERENCE: 2060.0140001
; CURRENT APPLICATION NUMBER: US/10/149,138
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: PCT/US00/33591
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: US 09/458,299
; PRIOR FILING DATE: 1999-12-11
; NUMBER OF SEQ ID NOS: 4641
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1900
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificially Synthesized Peptide
US-10-149-138-1900

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Query Match          36.4%; Score 4; DB 15; Length 11;
Best Local Similarity 100.0%; Pred. No. 7.7e+02;
Matches      4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      7 GAKP 10
        ||||
Db      4 GAKP 7

```

# RESULT 5

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US-10-149-138-2623
; Sequence 2623, Application US/10149138
; Publication No. US20040018971A1
; GENERAL INFORMATION:
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert
; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: Inducing Cellular Immune Responses to
; TITLE OF INVENTION: HER2/neu Using Peptide and Nucleic Acid Compositions
; FILE REFERENCE: 2060.0140001
; CURRENT APPLICATION NUMBER: US/10/149,138
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: PCT/US00/33591
; PRIOR FILING DATE: 2000-12-11

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; PRIOR APPLICATION NUMBER: US 09/458,299  
; PRIOR FILING DATE: 1999-12-11  
; NUMBER OF SEQ ID NOS: 4641  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 2623  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificially Synthesized Peptide  
US-10-149-138-2623

Query Match 36.4%; Score 4; DB 15; Length 11;  
Best Local Similarity 100.0%; Pred. No. 7.7e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GAKP 10  
||||  
Db 2 GAKP 5

RESULT 6

US-10-149-138-2646  
; Sequence 2646, Application US/10149138  
; Publication No. US20040018971A1  
; GENERAL INFORMATION:  
; APPLICANT: Fikes, John  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; APPLICANT: Southwood, Scott  
; APPLICANT: Chesnut, Robert  
; APPLICANT: Celis, Esteban  
; APPLICANT: Keogh, Elissa  
; TITLE OF INVENTION: Inducing Cellular Immune Responses to  
; TITLE OF INVENTION: HER2/neu Using Peptide and Nucleic Acid Compositions  
; FILE REFERENCE: 2060.0140001  
; CURRENT APPLICATION NUMBER: US/10/149,138  
; CURRENT FILING DATE: 2002-06-10  
; PRIOR APPLICATION NUMBER: PCT/US00/33591  
; PRIOR FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: US 09/458,299  
; PRIOR FILING DATE: 1999-12-11  
; NUMBER OF SEQ ID NOS: 4641  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 2646  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificially Synthesized Peptide  
US-10-149-138-2646

Query Match 36.4%; Score 4; DB 15; Length 11;  
Best Local Similarity 100.0%; Pred. No. 7.7e+02;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GAKP 10

Db           ||||  
              1 GAKP 4

RESULT 7

US-10-149-138-3305  
; Sequence 3305, Application US/10149138  
; Publication No. US20040018971A1  
; GENERAL INFORMATION:  
; APPLICANT: Fikes, John  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; APPLICANT: Southwood, Scott  
; APPLICANT: Chesnut, Robert  
; APPLICANT: Celis, Esteban  
; APPLICANT: Keogh, Elissa  
; TITLE OF INVENTION: Inducing Cellular Immune Responses to  
; TITLE OF INVENTION: HER2/neu Using Peptide and Nucleic Acid Compositions  
; FILE REFERENCE: 2060.0140001  
; CURRENT APPLICATION NUMBER: US/10/149,138  
; CURRENT FILING DATE: 2002-06-10  
; PRIOR APPLICATION NUMBER: PCT/US00/33591  
; PRIOR FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: US 09/458,299  
; PRIOR FILING DATE: 1999-12-11  
; NUMBER OF SEQ ID NOS: 4641  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 3305  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificially Synthesized Peptide  
US-10-149-138-3305

Query Match                   36.4%; Score 4; DB 15; Length 11;  
Best Local Similarity   100.0%; Pred. No. 7.7e+02;  
Matches       4; Conservative   0; Mismatches   0; Indels    0; Gaps    0;

Qy           7 GAKP 10  
              ||||  
Db           1 GAKP 4

RESULT 8

US-08-452-843A-15  
; Sequence 15, Application US/08452843A  
; Publication No. US20020098197A1  
; GENERAL INFORMATION:  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; TITLE OF INVENTION: HLA Binding Peptides and Their Uses  
; FILE REFERENCE: 399632001321  
; CURRENT APPLICATION NUMBER: US/08/452,843A  
; CURRENT FILING DATE: 1995-05-03  
; PRIOR APPLICATION NUMBER: US 08/344,824  
; PRIOR FILING DATE: 1994-11-23

; PRIOR APPLICATION NUMBER: US 08/278,634  
; PRIOR FILING DATE: 1994-07-21  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 15  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: p53, 127-137  
US-08-452-843A-15

Query Match 27.3%; Score 3; DB 8; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 ALN 5  
|||  
Db 3 ALN 5

RESULT 9

US-09-861-294-36

; Sequence 36, Application US/09861294  
; Patent No. US20020098190A1  
; GENERAL INFORMATION:  
; APPLICANT: Malaya CHATTERJEE  
; APPLICANT: Kenneth A. FOON  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING  
; TITLE OF INVENTION: TUMORS BEARING HMFG AND CEA ANTIGENS  
; FILE REFERENCE: 304142000620  
; CURRENT APPLICATION NUMBER: US/09/861,294  
; CURRENT FILING DATE: 2001-05-17  
; PRIOR APPLICATION NUMBER: 60/049,540  
; PRIOR FILING DATE: 1997-06-13  
; PRIOR APPLICATION NUMBER: 09/096,244  
; PRIOR FILING DATE: 1998-06-11  
; NUMBER OF SEQ ID NOS: 38  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 36  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-861-294-36

Query Match 27.3%; Score 3; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 WGA 8  
|||  
Db 1 WGA 3

RESULT 10

US-09-850-351A-65

; Sequence 65, Application US/09850351A

```

; Patent No. US20020100080A1
; GENERAL INFORMATION:
;   APPLICANT: Feitelson, Jerald S.
;               Schnepf, H. Ernest
;               Narva, Kenneth E.
;               Stockhoff, Brian A.
;               Schmeits, James
;               Loewer, David
;               Dullum, Charles Joseph
;               Muller-Cohn, Judy
;               Stamp, Lisa
;               Morrill, George
;   TITLE OF INVENTION: No. US20020100080A1el Pesticidal Toxins and
Nucleotide                               Sequences Which Encode These Toxins
;
;   NUMBER OF SEQUENCES: 144
;   CORRESPONDENCE ADDRESS:
;       ADDRESSEE: Saliwanchik, Lloyd & Saliwanchik
;       STREET: 2421 N.W. 41st Street, Suite A-1
;       CITY: Gainesville
;       STATE: FL
;       COUNTRY: US
;       ZIP: 32606-6669
;   COMPUTER READABLE FORM:
;       MEDIUM TYPE: Floppy disk
;       COMPUTER: IBM PC compatible
;       OPERATING SYSTEM: PC-DOS/MS-DOS
;       SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;       APPLICATION NUMBER: US/09/850,351A
;       FILING DATE: 07-May-2001
;       CLASSIFICATION: <Unknown>
;   PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: US 09/073,898
;       FILING DATE: 06-MAY-1998
;       APPLICATION NUMBER: US 08/960,780
;       FILING DATE: 30-OCT-1997
;       APPLICATION NUMBER: US 60/029,848
;       FILING DATE: 30-OCT-1996
;   ATTORNEY/AGENT INFORMATION:
;       NAME: Sanders, Jay M.
;       REGISTRATION NUMBER: 39,355
;       REFERENCE/DOCKET NUMBER: MA-708CD1
;   TELECOMMUNICATION INFORMATION:
;       TELEPHONE: 352-375-8100
;       TELEFAX: 352-372-5800
;   INFORMATION FOR SEQ ID NO: 65:
;       SEQUENCE CHARACTERISTICS:
;           LENGTH: 11 amino acids
;           TYPE: amino acid
;           STRANDEDNESS: single
;           TOPOLOGY: linear
;       MOLECULE TYPE: peptide
;       SEQUENCE DESCRIPTION: SEQ ID NO: 65:
US-09-850-351A-65

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Query Match

27.3%; Score 3; DB 9; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 ALN 5  
|||  
Db 7 ALN 9

RESULT 11

US-09-900-147-9

; Sequence 9, Application US/09900147  
; Patent No. US20020103121A1  
; GENERAL INFORMATION:  
; APPLICANT: La Thangue, Nicholas B  
; APPLICANT: Bandara, Lasantha R  
; TITLE OF INVENTION: Peptide antagonists of DP transcription factors  
; FILE REFERENCE: 620-67  
; CURRENT APPLICATION NUMBER: US/09/900,147  
; CURRENT FILING DATE: 2001-07-09  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/308,935  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: GB 9626589.7  
; PRIOR FILING DATE: EARLIER FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 9  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-900-147-9

Query Match 27.3%; Score 3; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 ALN 5  
|||  
Db 7 ALN 9

RESULT 12

US-09-758-128-40

; Sequence 40, Application US/09758128  
; Patent No. US20020107187A1  
; GENERAL INFORMATION:  
; APPLICANT: KINGSTON, David J.  
; APPLICANT: GERRATY, No. US20020107187A1man L.  
; APPLICANT: WESTBROOK, Simon L.  
; TITLE OF INVENTION: MODULATING THE ACTIVITY OF HORMONES OR THEIR RECEPTORS  
; TITLE OF INVENTION: - PEPTIDES, ANTIBODIES, VACCINES AND USES THEREOF  
; FILE REFERENCE: 016786/0214  
; CURRENT APPLICATION NUMBER: US/09/758,128  
; CURRENT FILING DATE: 2001-01-12  
; PRIOR APPLICATION NUMBER: 09/194,218  
; PRIOR FILING DATE: 1999-02-05

; PRIOR APPLICATION NUMBER: AU PN9990  
; PRIOR FILING DATE: 1996-05-22  
; NUMBER OF SEQ ID NOS: 58  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 40  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-758-128-40

Query Match 27.3%; Score 3; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 5 ARA 7

RESULT 13

US-09-359-325A-10

; Sequence 10, Application US/09359325A  
; Patent No. US20020107226A1  
; GENERAL INFORMATION:  
; APPLICANT: Berlin, Vivian  
; Levin, David  
; Ohya, Yoshikazu  
; TITLE OF INVENTION: ASSAYS AND REAGENTS FOR IDENTIFYING  
; ANTI-FUNGAL AGENTS, AND USES RELATED THERETO  
; NUMBER OF SEQUENCES: 31  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
; STREET: One Post Office Square  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02109-2170  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WordPad  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/359,325A  
; FILING DATE: 22-Jul-1999  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/631,319  
; FILING DATE: 11-APR-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Vincent, Matthew P.  
; REGISTRATION NUMBER: 36,709  
; REFERENCE/DOCKET NUMBER: MIV-074.08  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-832-1000  
; TELEFAX: 617-832-7000  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:

;           LENGTH: 11 amino acids  
;           TYPE: amino acid  
;           STRANDEDNESS: <Unknown>  
;           TOPOLOGY: linear  
;       MOLECULE TYPE: protein  
;       SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
US-09-359-325A-10

Query Match                   27.3%; Score 3; DB 9; Length 11;  
Best Local Similarity   100.0%; Pred. No. 8.4e+03;  
Matches   3; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy           2 RAL 4  
              |||  
Db           4 RAL 6

RESULT 14

US-09-359-325A-11

; Sequence 11, Application US/09359325A  
; Patent No. US20020107226A1  
;   GENERAL INFORMATION:  
;       APPLICANT: Berlin, Vivian  
;                   Levin, David  
;                   Ohya, Yoshikazu  
;   TITLE OF INVENTION: ASSAYS AND REAGENTS FOR IDENTIFYING  
;                           ANTI-FUNGAL AGENTS, AND USES RELATED THERETO  
;   NUMBER OF SEQUENCES: 31  
;   CORRESPONDENCE ADDRESS:  
;       ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
;       STREET: One Post Office Square  
;       CITY: Boston  
;       STATE: MA  
;       COUNTRY: USA  
;       ZIP: 02109-2170  
;   COMPUTER READABLE FORM:  
;       MEDIUM TYPE: Floppy disk  
;       COMPUTER: IBM PC compatible  
;       OPERATING SYSTEM: PC-DOS/MS-DOS  
;       SOFTWARE: WordPad  
;   CURRENT APPLICATION DATA:  
;       APPLICATION NUMBER: US/09/359,325A  
;       FILING DATE: 22-Jul-1999  
;   PRIOR APPLICATION DATA:  
;       APPLICATION NUMBER: US 08/631,319  
;       FILING DATE: 11-APR-1996  
;   ATTORNEY/AGENT INFORMATION:  
;       NAME: Vincent, Matthew P.  
;       REGISTRATION NUMBER: 36,709  
;       REFERENCE/DOCKET NUMBER: MIV-074.08  
;   TELECOMMUNICATION INFORMATION:  
;       TELEPHONE: 617-832-1000  
;       TELEFAX: 617-832-7000  
;   INFORMATION FOR SEQ ID NO: 11:  
;       SEQUENCE CHARACTERISTICS:  
;           LENGTH: 11 amino acids  
;           TYPE: amino acid



; STRANDEDNESS: <Unknown>  
;  
; TOPOLOGY: linear  
;  
; MOLECULE TYPE: protein  
;  
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:  
US-09-359-325A-11

Query Match 27.3%; Score 3; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 4 RAL 6

RESULT 15

US-09-848-537A-12

; Sequence 12, Application US/09848537A  
; Patent No. US20020137684A1  
; GENERAL INFORMATION:  
; APPLICANT: Tchistiakova, Liudmila  
; APPLICANT: Li, Shengmin  
; APPLICANT: Pietrzynski, Grzegorz  
; APPLICANT: Alakhov, Valery  
; TITLE OF INVENTION: Ligand For Enhancing Oral And CNS Delivery of  
; TITLE OF INVENTION: Biological Agents  
; FILE REFERENCE: 082181-36910  
; CURRENT APPLICATION NUMBER: US/09/848,537A  
; CURRENT FILING DATE: 2001-05-03  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 12  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: mutated  
; OTHER INFORMATION: sequence ID 4  
US-09-848-537A-12

Query Match 27.3%; Score 3; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 1 RAL 3

RESULT 16

US-09-833-079-2

; Sequence 2, Application US/09833079  
; Patent No. US20020142008A1  
; GENERAL INFORMATION:  
; APPLICANT: O'HANLEY, PETER  
; APPLICANT: DENICH, KENNETH  
; APPLICANT: SCHMIDT, M. ALEXANDER

```
; TITLE OF INVENTION: IMMUNOGENIC PILI PRESENTING FOREIGN PEPTIDES, THEIR
; TITLE OF INVENTION: PRODUCTION AND USE
; FILE REFERENCE: 050939/0104
; CURRENT APPLICATION NUMBER: US/09/833,079
; CURRENT FILING DATE: 2001-04-12
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: peptide
US-09-833-079-2
```

```
Query Match          27.3%; Score 3; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      7 GAK 9
        |||
Db      7 GAK 9
```

#### RESULT 17

```
US-09-833-079-17
; Sequence 17, Application US/09833079
; Patent No. US20020142008A1
; GENERAL INFORMATION:
; APPLICANT: O'HANLEY, PETER
; APPLICANT: DENICH, KENNETH
; APPLICANT: SCHMIDT, M. ALEXANDER
; TITLE OF INVENTION: IMMUNOGENIC PILI PRESENTING FOREIGN PEPTIDES, THEIR
; TITLE OF INVENTION: PRODUCTION AND USE
; FILE REFERENCE: 050939/0104
; CURRENT APPLICATION NUMBER: US/09/833,079
; CURRENT FILING DATE: 2001-04-12
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: peptide
US-09-833-079-17
```

```
Query Match          27.3%; Score 3; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      7 GAK 9
        |||
Db      7 GAK 9
```

RESULT 18

US-09-949-196-17

; Sequence 17, Application US/09949196

; Patent No. US20020147145A1

; GENERAL INFORMATION:

; APPLICANT: Zealand Pharmaceuticals A/S

; TITLE OF INVENTION: MATERIALS AND METHODS RELATING TO THE DEGRADATION OF Cdc25A IN RESPONSE

; TITLE OF INVENTION: TO DNA DAMAGE

; FILE REFERENCE: 55888 (45487)

; CURRENT APPLICATION NUMBER: US/09/949,196

; CURRENT FILING DATE: 2001-07-09

; NUMBER OF SEQ ID NOS: 45

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 17

; LENGTH: 11

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: synthetic peptide sequence

US-09-949-196-17

Query Match 27.3%; Score 3; DB 9; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.4e+03;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3

|||

Db 2 ARA 4

RESULT 19

US-09-949-196-18

; Sequence 18, Application US/09949196

; Patent No. US20020147145A1

; GENERAL INFORMATION:

; APPLICANT: Zealand Pharmaceuticals A/S

; TITLE OF INVENTION: MATERIALS AND METHODS RELATING TO THE DEGRADATION OF Cdc25A IN RESPONSE

; TITLE OF INVENTION: TO DNA DAMAGE

; FILE REFERENCE: 55888 (45487)

; CURRENT APPLICATION NUMBER: US/09/949,196

; CURRENT FILING DATE: 2001-07-09

; NUMBER OF SEQ ID NOS: 45

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 18

; LENGTH: 11

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: synthetic peptide sequence

US-09-949-196-18

Query Match 27.3%; Score 3; DB 9; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 2 ARA 4

RESULT 20

US-09-949-196-19

; Sequence 19, Application US/09949196

; Patent No. US20020147145A1

; GENERAL INFORMATION:

; APPLICANT: Zealand Pharmaceuticals A/S

; TITLE OF INVENTION: MATERIALS AND METHODS RELATING TO THE DEGRADATION OF  
Cdc25A IN RESPONSE

; TITLE OF INVENTION: TO DNA DAMAGE

; FILE REFERENCE: 55888 (45487)

; CURRENT APPLICATION NUMBER: US/09/949,196

; CURRENT FILING DATE: 2001-07-09

; NUMBER OF SEQ ID NOS: 45

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 19

; LENGTH: 11

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: synthetic peptide  
sequence

US-09-949-196-19

Query Match 27.3%; Score 3; DB 9; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.4e+03;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 2 ARA 4

RESULT 21

US-09-945-249-22

; Sequence 22, Application US/09945249

; Patent No. US20020168748A1

; GENERAL INFORMATION:

; APPLICANT: BERLIN, VIVIAN

; APPLICANT: DAMAGNEZ, VERONIQUE

; APPLICANT: SMITH, SUSAN E.

; TITLE OF INVENTION: ASSAYS AND REAGENTS FOR IDENTIFYING ANTI-FUNGAL AGENTS,

; TITLE OF INVENTION: AND USES RELATED THERETO

; FILE REFERENCE: MIV-074.06

; CURRENT APPLICATION NUMBER: US/09/945,249

; CURRENT FILING DATE: 2001-08-31

; PRIOR APPLICATION NUMBER: 09/041,990

; PRIOR FILING DATE: 2001-01-13

; PRIOR APPLICATION NUMBER: 08/771,212

; PRIOR FILING DATE: 1996-12-20

; PRIOR APPLICATION NUMBER: 08/631,319  
; PRIOR FILING DATE: 1996-04-11  
; NUMBER OF SEQ ID NOS: 89  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 22  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Rattus sp.  
US-09-945-249-22

Query Match 27.3%; Score 3; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 4 RAL 6

RESULT 22

US-09-945-249-27

; Sequence 27, Application US/09945249  
; Patent No. US20020168748A1  
; GENERAL INFORMATION:  
; APPLICANT: BERLIN, VIVIAN  
; APPLICANT: DAMAGNEZ, VERONIQUE  
; APPLICANT: SMITH, SUSAN E.  
; TITLE OF INVENTION: ASSAYS AND REAGENTS FOR IDENTIFYING ANTI-FUNGAL AGENTS,  
; TITLE OF INVENTION: AND USES RELATED THERETO  
; FILE REFERENCE: MIV-074.06  
; CURRENT APPLICATION NUMBER: US/09/945,249  
; CURRENT FILING DATE: 2001-08-31  
; PRIOR APPLICATION NUMBER: 09/041,990  
; PRIOR FILING DATE: 2001-01-13  
; PRIOR APPLICATION NUMBER: 08/771,212  
; PRIOR FILING DATE: 1996-12-20  
; PRIOR APPLICATION NUMBER: 08/631,319  
; PRIOR FILING DATE: 1996-04-11  
; NUMBER OF SEQ ID NOS: 89  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 27  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-945-249-27

Query Match 27.3%; Score 3; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 4 RAL 6

RESULT 23

US-09-758-426-40

```
; Sequence 40, Application US/09758426
; Patent No. US20020169116A1
; GENERAL INFORMATION:
; APPLICANT: KINGSTON, David J.
; APPLICANT: GERRATY, No. US20020169116Alman L.
; APPLICANT: WESTBROOK, Simon L.
; TITLE OF INVENTION: MODULATING THE ACTIVITY OF HORMONES OR THEIR RECEPTORS
; TITLE OF INVENTION: - PEPTIDES, ANTIBODIES, VACCINES AND USES THEREOF
; FILE REFERENCE: 016786/0214
; CURRENT APPLICATION NUMBER: US/09/758,426
; CURRENT FILING DATE: 2001-01-12
; PRIOR APPLICATION NUMBER: 09/194,218
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: AU PN9990
; PRIOR FILING DATE: 1996-05-22
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 40
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-758-426-40
```

```
Query Match          27.3%; Score 3; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      1 ARA 3
      |||
Db      5 ARA 7
```

#### RESULT 24

US-09-017-743C-123

```
; Sequence 123, Application US/09017743C
; Patent No. US20020177694A1
; GENERAL INFORMATION:
; APPLICANT: Sette, Alessandro
;           Sidney, John
;           Southwood, Scott
; TITLE OF INVENTION: HLA Binding Peptides and Their
;                   Uses
; NUMBER OF SEQUENCES: 146
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/017,743C
```

```

;      FILING DATE: 03-Feb-1998
;      CLASSIFICATION: <Unknown>
;      PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: US 08/590,298
;      FILING DATE: 23-JAN-1996
;      ATTORNEY/AGENT INFORMATION:
;      NAME: Parent, Annette S.
;      REGISTRATION NUMBER: 42,058
;      REFERENCE/DOCKET NUMBER: 018623-008050US
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: 415-576-0200
;      TELEFAX: 415-576-0300
;      TELEX: <Unknown>
;      INFORMATION FOR SEQ ID NO: 123:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 11 amino acids
;      TYPE: amino acid
;      STRANDEDNESS: single
;      TOPOLOGY: linear
;      MOLECULE TYPE: peptide
;      SEQUENCE DESCRIPTION: SEQ ID NO: 123:
US-09-017-743C-123

```

```

Query Match          27.3%; Score 3; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

```

```

Qy      2 RAL 4
        |||
Db      3 RAL 5

```

```

RESULT 25
US-09-017-743C-125
; Sequence 125, Application US/09017743C
; Patent No. US20020177694A1
; GENERAL INFORMATION:
; APPLICANT: Sette, Alessandro
;           Sidney, John
;           Southwood, Scott
; TITLE OF INVENTION: HLA Binding Peptides and Their
;                   Uses
; NUMBER OF SEQUENCES: 146
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/017,743C

```

```

; FILING DATE: 03-Feb-1998
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/590,298
; FILING DATE: 23-JAN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Parent, Annette S.
; REGISTRATION NUMBER: 42,058
; REFERENCE/DOCKET NUMBER: 018623-008050US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-576-0200
; TELEFAX: 415-576-0300
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 125:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 125:
US-09-017-743C-125

```

```

Query Match          27.3%; Score 3; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative    0; Mismatches    0; Indels      0; Gaps      0;

```

```

Qy      2 RAL 4
        |||
Db      3 RAL 5

```

# RESULT 26

```

US-09-017-743C-127
; Sequence 127, Application US/09017743C
; Patent No. US20020177694A1
; GENERAL INFORMATION:
; APPLICANT: Sette, Alessandro
;           Sidney, John
;           Southwood, Scott
; TITLE OF INVENTION: HLA Binding Peptides and Their
;                   Uses
; NUMBER OF SEQUENCES: 146
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/017,743C

```



```

; FILING DATE: 03-Feb-1998
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/590,298
; FILING DATE: 23-JAN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Parent, Annette S.
; REGISTRATION NUMBER: 42,058
; REFERENCE/DOCKET NUMBER: 018623-008050US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-576-0200
; TELEFAX: 415-576-0300
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 127:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 127:
US-09-017-743C-127

```

```

Query Match          27.3%; Score 3; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative    0; Mismatches    0; Indels      0; Gaps      0;

```

```

Qy      3 ALN 5
        |||
Db      3 ALN 5

```

```

RESULT 27
US-09-758-198-40
; Sequence 40, Application US/09758198
; Publication No. US20020187925A1
; GENERAL INFORMATION:
; APPLICANT: KINGSTON, David J.
; APPLICANT: GERRATY, No. US20020187925Alman L.
; APPLICANT: WESTBROOK, Simon L.
; TITLE OF INVENTION: MODULATING THE ACTIVITY OF HORMONES OR THEIR RECEPTORS
; TITLE OF INVENTION: - PEPTIDES, ANTIBODIES, VACCINES AND USES THEREOF
; FILE REFERENCE: 016786/0214
; CURRENT APPLICATION NUMBER: US/09/758,198
; CURRENT FILING DATE: 2001-01-12
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/194,218
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: PCT/AU97/00312
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-22
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: AU PN9990
; PRIOR FILING DATE: EARLIER FILING DATE: 1996-05-22
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 40
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Homo sapiens

```

US-09-758-198-40

Query Match 27.3%; Score 3; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 5 ARA 7

RESULT 28

US-09-879-572A-23

; Sequence 23, Application US/09879572A  
; Publication No. US20020197711A1  
; GENERAL INFORMATION:  
; APPLICANT: RAMSINGH, ARLENE I.  
; APPLICANT: HALIM, SADIA S.  
; TITLE OF INVENTION: COXSACKIEVIRUS B4 EXPRESSION VECTORS AND USES THEREOF  
; FILE REFERENCE: 0189-2001  
; CURRENT APPLICATION NUMBER: US/09/879,572A  
; CURRENT FILING DATE: 2002-04-19  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 23  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: peptide  
US-09-879-572A-23

Query Match 27.3%; Score 3; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 3 RAL 5

RESULT 29

US-09-879-572A-25

; Sequence 25, Application US/09879572A  
; Publication No. US20020197711A1  
; GENERAL INFORMATION:  
; APPLICANT: RAMSINGH, ARLENE I.  
; APPLICANT: HALIM, SADIA S.  
; TITLE OF INVENTION: COXSACKIEVIRUS B4 EXPRESSION VECTORS AND USES THEREOF  
; FILE REFERENCE: 0189-2001  
; CURRENT APPLICATION NUMBER: US/09/879,572A  
; CURRENT FILING DATE: 2002-04-19  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 25  
; LENGTH: 11

; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: peptide  
US-09-879-572A-25

Query Match 27.3%; Score 3; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 3 RAL 5

RESULT 30

US-09-983-802-596

; Sequence 596, Application US/09983802  
; Publication No. US20030022185A1  
; GENERAL INFORMATION:  
; APPLICANT: Fischer et al.  
; TITLE OF INVENTION: 123 Human Secreted Proteins  
; FILE REFERENCE: PZ010P1  
; CURRENT APPLICATION NUMBER: US/09/983,802  
; CURRENT FILING DATE: 2001-10-25  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/227,357  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: PCT/US98/13684  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-07-07  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,926  
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,793  
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,925  
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,929  
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,803  
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,732  
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,931  
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,932  
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,916  
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,930  
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,918  
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,920  
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,733  
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,795

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; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,919
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,928
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,722
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,723
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,948
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,949
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,953
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,950
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,947
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,964
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/056,360
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,684
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,984
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,954
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,785
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,664
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,660
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,661
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 596
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-983-802-596

```

```

Query Match          27.3%; Score 3; DB 10; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

```

```

Qy      1 ARA 3
        |||
Db      2 ARA 4

```

```

RESULT 31
US-09-956-940-53
; Sequence 53, Application US/09956940

```

```

; Publication No. US20030022826A1
;   GENERAL INFORMATION:
;       APPLICANT: HAYNES, BARTON F.
;       TITLE OF INVENTION: USE OF SYNTHETIC PEPTIDES TO INDUCE
;                               TOLERANCE TO PATHOGENIC T AND B CELL EPITOPES OF
;                               AUTOANTIGENS OR INFECTIOUS AGENTS
;       NUMBER OF SEQUENCES: 53
;       CORRESPONDENCE ADDRESS:
;           ADDRESSEE: NIXON & VANDERHYE P.C.
;           STREET: 1100 NORTH GLEBE ROAD
;           CITY: ARLINGTON
;           STATE: VIRGINIA
;           COUNTRY: U.S.A.
;           ZIP: 22201-4714
;       COMPUTER READABLE FORM:
;           MEDIUM TYPE: Floppy disk
;           COMPUTER: IBM PC compatible
;           OPERATING SYSTEM: PC-DOS/MS-DOS
;           SOFTWARE: PatentIn Release #1.0, Version #1.25
;       CURRENT APPLICATION DATA:
;           APPLICATION NUMBER: US/09/956,940
;           FILING DATE: 12-Oct-2001
;           CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;           APPLICATION NUMBER: US/08/460,673
;           FILING DATE: <Unknown>
;           APPLICATION NUMBER: US 08/015,987
;           FILING DATE: 10-FEB-1993
;           APPLICATION NUMBER: US 07/833,429
;           FILING DATE: 10-FEB-1992
;           APPLICATION NUMBER: US 07/591,109
;           FILING DATE: 01-OCT-1990
;           APPLICATION NUMBER: US 07/093,854
;           FILING DATE: 08-SEP-1987
;       ATTORNEY/AGENT INFORMATION:
;           NAME: WILSON, MARY J.
;           REGISTRATION NUMBER: 32,955
;           REFERENCE/DOCKET NUMBER: 1579-5
;       TELECOMMUNICATION INFORMATION:
;           TELEPHONE: (703) 816-4000
;           TELEFAX: (703) 816-4100
;           TELEX: 200797 NIXN UR
;   INFORMATION FOR SEQ ID NO: 53:
;       SEQUENCE CHARACTERISTICS:
;           LENGTH: 11 amino acids
;           TYPE: amino acid
;           STRANDEDNESS: single
;           TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 53:
US-09-956-940-53

```

```

Query Match          27.3%;  Score 3;  DB 10;  Length 11;
Best Local Similarity 100.0%;  Pred. No. 8.4e+03;
Matches      3;  Conservative      0;  Mismatches      0;  Indels      0;  Gaps      0;

```

Qy            2 RAL 4

Db                    |||  
                      6 RAL 8

RESULT 32

US-09-791-393-187

; Sequence 187, Application US/09791393  
; Publication No. US20030032200A1  
; GENERAL INFORMATION:  
; APPLICANT: Herath, Herath Mudiyanseelage Athula Chandrasiri  
; APPLICANT: Parekh, Rajesh Bhikhu  
; APPLICANT: Rohlf, Christian  
; TITLE OF INVENTION: Proteins, Genes and Their Use for  
; TITLE OF INVENTION: Diagnosis and Treatment of Bipolar Affective Disorder  
(BAD)  
; TITLE OF INVENTION: and Unipolar Depression  
; FILE REFERENCE: 2543-1-001 N1  
; CURRENT APPLICATION NUMBER: US/09/791,393  
; CURRENT FILING DATE: 2002-01-02  
; EARLIER APPLICATION NUMBER: GB 0004412.3  
; EARLIER FILING DATE: 2000-02-24  
; EARLIER APPLICATION NUMBER: GB 0030050.9  
; EARLIER FILING DATE: 2000-12-08  
; EARLIER APPLICATION NUMBER: US 60/254,830  
; EARLIER FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 308  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 187  
;     LENGTH: 11  
;     TYPE: PRT  
;     ORGANISM: homo sapien  
US-09-791-393-187

Query Match                    27.3%;   Score 3;   DB 10;   Length 11;  
Best Local Similarity    100.0%;   Pred. No. 8.4e+03;  
Matches        3;   Conservative        0;   Mismatches        0;   Indels        0;   Gaps        0;

Qy                    3 ALN 5  
                      |||  
Db                    4 ALN 6

RESULT 33

US-09-791-389-187

; Sequence 187, Application US/09791389  
; Publication No. US20030032773A1  
; GENERAL INFORMATION:  
; APPLICANT: Herath, Herath Mudiyanseelage Athula Chandrasiri  
; APPLICANT: Parekh, Rajesh Bhikhu  
; APPLICANT: Rohlf, Christian  
; APPLICANT: Terrett, Jonathan Alexander  
; APPLICANT: Tyson, Kerry Louise  
; TITLE OF INVENTION: Proteins, Genes and Their Use for  
; TITLE OF INVENTION: Diagnosis and Treatment of Bipolar Affective Disorder  
(BAD)  
; TITLE OF INVENTION: and Unipolar Depression  
; FILE REFERENCE: 2543-1-001 N2

; CURRENT APPLICATION NUMBER: US/09/791,389  
; CURRENT FILING DATE: 2001-02-23  
; PRIOR APPLICATION NUMBER: GB 0004412.3  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: GB 0030050.9  
; PRIOR FILING DATE: 2000-12-08  
; PRIOR APPLICATION NUMBER: US 60/254,830  
; PRIOR FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 308  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 187  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: homo sapien  
US-09-791-389-187

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 ALN 5  
|||  
Db 4 ALN 6

RESULT 34

US-09-906-393A-7  
; Sequence 7, Application US/09906393A  
; Publication No. US20030039970A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Zhou  
; APPLICANT: Xiao, Wuhan  
; TITLE OF INVENTION: METHOD OF PROGNOSING CANCER AND THE PROTEINS INVOLVED  
; FILE REFERENCE: 1720-1-001CIP  
; CURRENT APPLICATION NUMBER: US/09/906,393A  
; CURRENT FILING DATE: 2001-07-16  
; PRIOR APPLICATION NUMBER: 60/218,761  
; PRIOR FILING DATE: 2000-07-17  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-906-393A-7

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AKP 10  
|||  
Db 4 AKP 6

RESULT 35

US-09-882-291-45

```
; Sequence 45, Application US/09882291
; Publication No. US20030040472A1
; GENERAL INFORMATION:
; APPLICANT: Zealand Pharmaceuticals A/S
; TITLE OF INVENTION: No. US20030040472A1el Peptide Conjugates
; FILE REFERENCE: 007-2001
; CURRENT APPLICATION NUMBER: US/09/882,291
; CURRENT FILING DATE: 2001-06-15
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 45
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic peptide
sequence
US-09-882-291-45
```

```
Query Match          27.3%; Score 3; DB 10; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      1 ARA 3
        |||
Db      2 ARA 4
```

```
RESULT 36
US-09-882-291-46
; Sequence 46, Application US/09882291
; Publication No. US20030040472A1
; GENERAL INFORMATION:
; APPLICANT: Zealand Pharmaceuticals A/S
; TITLE OF INVENTION: No. US20030040472A1el Peptide Conjugates
; FILE REFERENCE: 007-2001
; CURRENT APPLICATION NUMBER: US/09/882,291
; CURRENT FILING DATE: 2001-06-15
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 46
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic peptide
sequence
US-09-882-291-46
```

```
Query Match          27.3%; Score 3; DB 10; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      1 ARA 3
        |||
Db      2 ARA 4
```



RESULT 37

US-09-882-291-47

; Sequence 47, Application US/09882291  
 ; Publication No. US20030040472A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Zealand Pharmaceuticals A/S  
 ; TITLE OF INVENTION: No. US20030040472A1el Peptide Conjugates  
 ; FILE REFERENCE: 007-2001  
 ; CURRENT APPLICATION NUMBER: US/09/882,291  
 ; CURRENT FILING DATE: 2001-06-15  
 ; NUMBER OF SEQ ID NOS: 77  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 47  
 ; LENGTH: 11  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: synthetic peptide  
 sequence  
 US-09-882-291-47

Query Match 27.3%; Score 3; DB 10; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
 |||  
 Db 2 ARA 4

RESULT 38

US-09-861-661-40

; Sequence 40, Application US/09861661  
 ; Publication No. US20030045676A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: KINGSTON, DAVID J.  
 ; APPLICANT: GERRATY, NORMAN L.  
 ; APPLICANT: WESTBROOK, SIMON L.  
 ; TITLE OF INVENTION: PEPTIDES, ANTIBODIES, VACCINES & USES THEREOF  
 ; FILE REFERENCE: 054270/0135  
 ; CURRENT APPLICATION NUMBER: US/09/861,661  
 ; CURRENT FILING DATE: 2001-05-22  
 ; PRIOR APPLICATION NUMBER: 09/194,218  
 ; PRIOR FILING DATE: 1999-02-05  
 ; PRIOR APPLICATION NUMBER: AU PN9990  
 ; PRIOR FILING DATE: 1996-05-22  
 ; NUMBER OF SEQ ID NOS: 59  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 40  
 ; LENGTH: 11  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-861-661-40

Query Match 27.3%; Score 3; DB 10; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.4e+03;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||

Db 5 ARA 7

RESULT 39

US-09-860-840-14  
; Sequence 14, Application US/09860840  
; Publication No. US20030049723A1  
; GENERAL INFORMATION:  
; APPLICANT: Zhang, Yi  
; APPLICANT: Chaux, Pascal  
; APPLICANT: Boon, Thierry  
; APPLICANT: van der Bruggen, Pierre  
; TITLE OF INVENTION: MAGE-A3 PEPTIDES PRESENTED BY HLA CLASS II MOLECULES  
; FILE REFERENCE: L0461/7110 (JRV)  
; CURRENT APPLICATION NUMBER: US/09/860,840  
; CURRENT FILING DATE: 2001-05-18  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 14  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-860-840-14

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||

Db 7 RAL 9

RESULT 40

US-09-775-052-4  
; Sequence 4, Application US/09775052  
; Publication No. US20030054000A1  
; GENERAL INFORMATION:  
; APPLICANT: Dowdy, Steven F.  
; TITLE OF INVENTION: ANTI-PATHOGEN SYSTEM AND METHODS OF USE THEREOF  
; FILE REFERENCE: 48881/1742  
; CURRENT APPLICATION NUMBER: US/09/775,052  
; CURRENT FILING DATE: 2001-02-01  
; PRIOR APPLICATION NUMBER: 09/208,966  
; PRIOR FILING DATE: 1998-12-10  
; PRIOR APPLICATION NUMBER: 60/082,402  
; PRIOR FILING DATE: 1998-04-20  
; PRIOR APPLICATION NUMBER: 60/069,012  
; PRIOR FILING DATE: 1997-12-10  
; NUMBER OF SEQ ID NOS: 57  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 11

; TYPE: PRT  
; ORGANISM: human  
US-09-775-052-4

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 2 ARA 4

RESULT 41

US-09-775-052-5

; Sequence 5, Application US/09775052  
; Publication No. US20030054000A1  
; GENERAL INFORMATION:  
; APPLICANT: Dowdy, Steven F.  
; TITLE OF INVENTION: ANTI-PATHOGEN SYSTEM AND METHODS OF USE THEREOF  
; FILE REFERENCE: 48881/1742  
; CURRENT APPLICATION NUMBER: US/09/775,052  
; CURRENT FILING DATE: 2001-02-01  
; PRIOR APPLICATION NUMBER: 09/208,966  
; PRIOR FILING DATE: 1998-12-10  
; PRIOR APPLICATION NUMBER: 60/082,402  
; PRIOR FILING DATE: 1998-04-20  
; PRIOR APPLICATION NUMBER: 60/069,012  
; PRIOR FILING DATE: 1997-12-10  
; NUMBER OF SEQ ID NOS: 57  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: human  
US-09-775-052-5

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 2 ARA 4

RESULT 42

US-09-775-052-6

; Sequence 6, Application US/09775052  
; Publication No. US20030054000A1  
; GENERAL INFORMATION:  
; APPLICANT: Dowdy, Steven F.  
; TITLE OF INVENTION: ANTI-PATHOGEN SYSTEM AND METHODS OF USE THEREOF  
; FILE REFERENCE: 48881/1742  
; CURRENT APPLICATION NUMBER: US/09/775,052  
; CURRENT FILING DATE: 2001-02-01  
; PRIOR APPLICATION NUMBER: 09/208,966

; PRIOR FILING DATE: 1998-12-10  
; PRIOR APPLICATION NUMBER: 60/082,402  
; PRIOR FILING DATE: 1998-04-20  
; PRIOR APPLICATION NUMBER: 60/069,012  
; PRIOR FILING DATE: 1997-12-10  
; NUMBER OF SEQ ID NOS: 57  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: human  
US-09-775-052-6

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 2 ARA 4

RESULT 43

US-09-775-052-39

; Sequence 39, Application US/09775052  
; Publication No. US20030054000A1  
; GENERAL INFORMATION:  
; APPLICANT: Dowdy, Steven F.  
; TITLE OF INVENTION: ANTI-PATHOGEN SYSTEM AND METHODS OF USE THEREOF  
; FILE REFERENCE: 48881/1742  
; CURRENT APPLICATION NUMBER: US/09/775,052  
; CURRENT FILING DATE: 2001-02-01  
; PRIOR APPLICATION NUMBER: 09/208,966  
; PRIOR FILING DATE: 1998-12-10  
; PRIOR APPLICATION NUMBER: 60/082,402  
; PRIOR FILING DATE: 1998-04-20  
; PRIOR APPLICATION NUMBER: 60/069,012  
; PRIOR FILING DATE: 1997-12-10  
; NUMBER OF SEQ ID NOS: 57  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 39  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: human  
US-09-775-052-39

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 2 ARA 4

RESULT 44

US-09-775-052-40

```

; Sequence 40, Application US/09775052
; Publication No. US20030054000A1
; GENERAL INFORMATION:
; APPLICANT: Dowdy, Steven F.
; TITLE OF INVENTION: ANTI-PATHOGEN SYSTEM AND METHODS OF USE THEREOF
; FILE REFERENCE: 48881/1742
; CURRENT APPLICATION NUMBER: US/09/775,052
; CURRENT FILING DATE: 2001-02-01
; PRIOR APPLICATION NUMBER: 09/208,966
; PRIOR FILING DATE: 1998-12-10
; PRIOR APPLICATION NUMBER: 60/082,402
; PRIOR FILING DATE: 1998-04-20
; PRIOR APPLICATION NUMBER: 60/069,012
; PRIOR FILING DATE: 1997-12-10
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 40
; LENGTH: 11
; TYPE: PRT
; ORGANISM: human
US-09-775-052-40

```

```

Query Match          27.3%; Score 3; DB 10; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

```

```

Qy      1 ARA 3
        |||
Db      2 ARA 4

```

#### RESULT 45

US-09-775-052-41

```

; Sequence 41, Application US/09775052
; Publication No. US20030054000A1
; GENERAL INFORMATION:
; APPLICANT: Dowdy, Steven F.
; TITLE OF INVENTION: ANTI-PATHOGEN SYSTEM AND METHODS OF USE THEREOF
; FILE REFERENCE: 48881/1742
; CURRENT APPLICATION NUMBER: US/09/775,052
; CURRENT FILING DATE: 2001-02-01
; PRIOR APPLICATION NUMBER: 09/208,966
; PRIOR FILING DATE: 1998-12-10
; PRIOR APPLICATION NUMBER: 60/082,402
; PRIOR FILING DATE: 1998-04-20
; PRIOR APPLICATION NUMBER: 60/069,012
; PRIOR FILING DATE: 1997-12-10
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 41
; LENGTH: 11
; TYPE: PRT
; ORGANISM: human
US-09-775-052-41

```

```

Query Match          27.3%; Score 3; DB 10; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;

```

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 2 ARA 4

RESULT 46

US-09-775-052-55

; Sequence 55, Application US/09775052  
; Publication No. US20030054000A1  
; GENERAL INFORMATION:  
; APPLICANT: Dowdy, Steven F.  
; TITLE OF INVENTION: ANTI-PATHOGEN SYSTEM AND METHODS OF USE THEREOF  
; FILE REFERENCE: 48881/1742  
; CURRENT APPLICATION NUMBER: US/09/775,052  
; CURRENT FILING DATE: 2001-02-01  
; PRIOR APPLICATION NUMBER: 09/208,966  
; PRIOR FILING DATE: 1998-12-10  
; PRIOR APPLICATION NUMBER: 60/082,402  
; PRIOR FILING DATE: 1998-04-20  
; PRIOR APPLICATION NUMBER: 60/069,012  
; PRIOR FILING DATE: 1997-12-10  
; NUMBER OF SEQ ID NOS: 57  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 55  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: human  
US-09-775-052-55

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 2 ARA 4

RESULT 47

US-09-775-052-56

; Sequence 56, Application US/09775052  
; Publication No. US20030054000A1  
; GENERAL INFORMATION:  
; APPLICANT: Dowdy, Steven F.  
; TITLE OF INVENTION: ANTI-PATHOGEN SYSTEM AND METHODS OF USE THEREOF  
; FILE REFERENCE: 48881/1742  
; CURRENT APPLICATION NUMBER: US/09/775,052  
; CURRENT FILING DATE: 2001-02-01  
; PRIOR APPLICATION NUMBER: 09/208,966  
; PRIOR FILING DATE: 1998-12-10  
; PRIOR APPLICATION NUMBER: 60/082,402  
; PRIOR FILING DATE: 1998-04-20  
; PRIOR APPLICATION NUMBER: 60/069,012  
; PRIOR FILING DATE: 1997-12-10  
; NUMBER OF SEQ ID NOS: 57

; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 56  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: human  
US-09-775-052-56

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 2 ARA 4

RESULT 48

US-09-775-052-57

; Sequence 57, Application US/09775052  
; Publication No. US20030054000A1  
; GENERAL INFORMATION:  
; APPLICANT: Dowdy, Steven F.  
; TITLE OF INVENTION: ANTI-PATHOGEN SYSTEM AND METHODS OF USE THEREOF  
; FILE REFERENCE: 48881/1742  
; CURRENT APPLICATION NUMBER: US/09/775,052  
; CURRENT FILING DATE: 2001-02-01  
; PRIOR APPLICATION NUMBER: 09/208,966  
; PRIOR FILING DATE: 1998-12-10  
; PRIOR APPLICATION NUMBER: 60/082,402  
; PRIOR FILING DATE: 1998-04-20  
; PRIOR APPLICATION NUMBER: 60/069,012  
; PRIOR FILING DATE: 1997-12-10  
; NUMBER OF SEQ ID NOS: 57  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 57  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: human  
US-09-775-052-57

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 2 ARA 4

RESULT 49

US-09-847-946A-128

; Sequence 128, Application US/09847946A  
; Publication No. US20030054999A1  
; GENERAL INFORMATION:  
; APPLICANT: May, Michael J  
; APPLICANT: Ghosh, Sankar  
; APPLICANT: Findeis, Mark A

```
; APPLICANT:  Phillips, Kathryn
; APPLICANT:  Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE:  2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 128
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:membrane
;   OTHER INFORMATION: translocation domain
US-09-847-946A-128
```

```
Query Match          27.3%;  Score 3;  DB 10;  Length 11;
Best Local Similarity 100.0%;  Pred. No. 8.4e+03;
Matches      3;  Conservative      0;  Mismatches      0;  Indels      0;  Gaps      0;
```

```
Qy          1 ARA 3
             |||
Db          2 ARA 4
```

# RESULT 50

```
US-09-847-946A-129
; Sequence 129, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT:  Ghosh, Sankar
; APPLICANT:  Findeis, Mark A
; APPLICANT:  Phillips, Kathryn
; APPLICANT:  Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE:  2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 129
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:membrane
;   OTHER INFORMATION: translocation domain
```



US-09-847-946A-129

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 2 ARA 4

RESULT 51

US-09-876-904A-531

; Sequence 531, Application US/09876904A

; Publication No. US20030072794A1

; GENERAL INFORMATION:

; APPLICANT: BOULIKAS, TENI

; TITLE OF INVENTION: ENCAPSULATION OF PLASMID DNA (LIPOGENES TM) AND THERAPEUTIC

; TITLE OF INVENTION: AGENTS WITH NUCLEAR LOCALIZATION SIGNAL/FUSOGENIC PEPTIDE

; TITLE OF INVENTION: CONJUGATES INTO TARGETED LIPOSOME COMPLEXES

; FILE REFERENCE: TB-2002.00

; CURRENT APPLICATION NUMBER: US/09/876,904A

; CURRENT FILING DATE: 2001-06-08

; PRIOR APPLICATION NUMBER: US 60/210,925

; PRIOR FILING DATE: 2000-06-09

; NUMBER OF SEQ ID NOS: 629

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 531

; LENGTH: 11

; TYPE: PRT

; ORGANISM: Saccharomyces cerevisiae

; FEATURE:

; OTHER INFORMATION: Yeast L16 ribosomal protein.

US-09-876-904A-531

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 1 ARA 3

RESULT 52

US-09-876-904A-578

; Sequence 578, Application US/09876904A

; Publication No. US20030072794A1

; GENERAL INFORMATION:

; APPLICANT: BOULIKAS, TENI

; TITLE OF INVENTION: ENCAPSULATION OF PLASMID DNA (LIPOGENES TM) AND THERAPEUTIC

; TITLE OF INVENTION: AGENTS WITH NUCLEAR LOCALIZATION SIGNAL/FUSOGENIC PEPTIDE

; TITLE OF INVENTION: CONJUGATES INTO TARGETED LIPOSOME COMPLEXES

; FILE REFERENCE: TB-2002.00  
; CURRENT APPLICATION NUMBER: US/09/876,904A  
; CURRENT FILING DATE: 2001-06-08  
; PRIOR APPLICATION NUMBER: US 60/210,925  
; PRIOR FILING DATE: 2000-06-09  
; NUMBER OF SEQ ID NOS: 629  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 578  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Bos sp.  
; FEATURE:  
; OTHER INFORMATION: Calf thymus histone H4 (102 aa).  
US-09-876-904A-578

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GAK 9  
|||  
Db 1 GAK 3

RESULT 53

US-09-876-904A-597  
; Sequence 597, Application US/09876904A  
; Publication No. US20030072794A1  
; GENERAL INFORMATION:  
; APPLICANT: BOULIKAS, TENI  
; TITLE OF INVENTION: ENCAPSULATION OF PLASMID DNA (LIPOGENES TM) AND  
THERAPEUTIC  
; TITLE OF INVENTION: AGENTS WITH NUCLEAR LOCALIZATION SIGNAL/FUSOGENIC  
PEPTIDE  
; TITLE OF INVENTION: CONJUGATES INTO TARGETED LIPOSOME COMPLEXES  
; FILE REFERENCE: TB-2002.00  
; CURRENT APPLICATION NUMBER: US/09/876,904A  
; CURRENT FILING DATE: 2001-06-08  
; PRIOR APPLICATION NUMBER: US 60/210,925  
; PRIOR FILING DATE: 2000-06-09  
; NUMBER OF SEQ ID NOS: 629  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 597  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Parechinus angulosus  
; FEATURE:  
; OTHER INFORMATION: Sea urchin Parechinus angulosus sperm H1 (248 aa).  
US-09-876-904A-597

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KPK 11  
|||  
Db 6 KPK 8

RESULT 54

US-09-876-904A-622

; Sequence 622, Application US/09876904A

; Publication No. US20030072794A1

; GENERAL INFORMATION:

; APPLICANT: BOULIKAS, TENI

; TITLE OF INVENTION: ENCAPSULATION OF PLASMID DNA (LIPOGENES TM) AND THERAPEUTIC

; TITLE OF INVENTION: AGENTS WITH NUCLEAR LOCALIZATION SIGNAL/FUSOGENIC PEPTIDE

; TITLE OF INVENTION: CONJUGATES INTO TARGETED LIPOSOME COMPLEXES

; FILE REFERENCE: TB-2002.00

; CURRENT APPLICATION NUMBER: US/09/876,904A

; CURRENT FILING DATE: 2001-06-08

; PRIOR APPLICATION NUMBER: US 60/210,925

; PRIOR FILING DATE: 2000-06-09

; NUMBER OF SEQ ID NOS: 629

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 622

; LENGTH: 11

; TYPE: PRT

; ORGANISM: Unknown Organism

; FEATURE:

; OTHER INFORMATION: Description of Unknown Organism: Trout testis H6 (60 aa).

US-09-876-904A-622

Query Match 27.3%; Score 3; DB 10; Length 11;

Best Local Similarity 100.0%; Pred. No. 8.4e+03;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KPK 11

|||

Db 1 KPK 3

RESULT 55

US-09-563-222-177

; Sequence 177, Application US/09563222

; Publication No. US20030079253A1

; GENERAL INFORMATION:

; APPLICANT: Hiatt, Andrew

; APPLICANT: Hein, Mich B.

; TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN

; TITLE OF INVENTION: EUKARYOTIC CELLS

; FILE REFERENCE: 310098.406

; CURRENT APPLICATION NUMBER: US/09/563,222

; CURRENT FILING DATE: 2000-05-02

; NUMBER OF SEQ ID NOS: 197

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 177

; LENGTH: 11

; TYPE: PRT

; ORGANISM: Mus musculus

US-09-563-222-177

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 WGA 8

|||

Db 1 WGA 3

RESULT 56

US-09-992-665-12

; Sequence 12, Application US/09992665

; Publication No. US20030092009A1

; GENERAL INFORMATION:

; APPLICANT: Kaia Palm

; TITLE OF INVENTION: PROFILING TUMOR SPECIFIC MARKERS FOR THE

; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF NEOPLASTIC DISEASE

; FILE REFERENCE: CEMINES.002A

; CURRENT APPLICATION NUMBER: US/09/992,665

; CURRENT FILING DATE: 2001-11-13

; PRIOR APPLICATION NUMBER: 60/249,508

; PRIOR FILING DATE: 2000-11-16

; NUMBER OF SEQ ID NOS: 380

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 12

; LENGTH: 11

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Probe

US-09-992-665-12

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KPK 11

|||

Db 4 KPK 6

RESULT 57

US-09-852-910-248

; Sequence 248, Application US/09852910

; Publication No. US20030096297A1

; GENERAL INFORMATION:

; APPLICANT: Hamm, Heidi

; APPLICANT: Gilchrist, Annette

; TITLE OF INVENTION: Method For Identifying Inhibitors of G Protein Coupled  
Receptor Signaling

; FILE REFERENCE: 2661-101

; CURRENT APPLICATION NUMBER: US/09/852,910

; CURRENT FILING DATE: 2001-09-18

; PRIOR APPLICATION NUMBER: US 60/275,472

; PRIOR FILING DATE: 2001-03-14

; NUMBER OF SEQ ID NOS: 271

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 248  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(11)  
; OTHER INFORMATION: G11 library peptide  
US-09-852-910-248

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KPK 11  
|||  
Db 4 KPK 6

RESULT 58

US-09-848-781-3

; Sequence 3, Application US/09848781  
; Publication No. US20030096315A1  
; GENERAL INFORMATION:  
; APPLICANT: SANDERS, MITCHELL  
; TITLE OF INVENTION: A DEVICE FOR DETECTING BACTERIAL CONTAMINATION AND METHOD  
OF USE  
; FILE REFERENCE: 102951-10  
; CURRENT APPLICATION NUMBER: US/09/848,781  
; CURRENT FILING DATE: 2001-05-03  
; PRIOR APPLICATION NUMBER: 60/201,405  
; PRIOR FILING DATE: 2000-05-03  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 3  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Listeria monocytogenes  
US-09-848-781-3

Query Match 27.3%; Score 3; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GAK 9  
|||  
Db 8 GAK 10

RESULT 59

US-09-261-894-12

; Sequence 12, Application US/09261894  
; Publication No. US20030207324A1  
; GENERAL INFORMATION:  
; APPLICANT: Humphreys, Robert E  
; APPLICANT: Adams, Sharlene  
; APPLICANT: Xu, Minzhen

; TITLE OF INVENTION: IMMUNOTHERAPY BY MODULATION OF ANTIGEN  
 ; NUMBER OF SEQUENCES: 165  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Kevin M. Farrell, P.C.  
 ; STREET: P.O. Box 999  
 ; CITY: York Harbor  
 ; STATE: ME  
 ; COUNTRY: USA  
 ; ZIP: 03911  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/261,894  
 ; FILING DATE: March 3, 1999  
 ; CLASSIFICATION:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Farrell, Kevin M  
 ; REGISTRATION NUMBER: 35,505  
 ; REFERENCE/DOCKET NUMBER: REH-9601  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (207) 363-0558  
 ; TELEFAX: (207) 363-0528  
 ; INFORMATION FOR SEQ ID NO: 12:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 11 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 US-09-261-894-12

Query Match 27.3%; Score 3; DB 11; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 AKP 10  
 |||  
 Db 4 AKP 6

RESULT 60  
 US-09-791-551-105  
 ; Sequence 105, Application US/09791551  
 ; Publication No. US20030235584A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: KLOETZER, WILLIAM S.  
 ; APPLICANT: HANNA, NABIL  
 ; TITLE OF INVENTION: METHOD FOR PREPARING ANTI-MIF ANTIBODIES  
 ; FILE REFERENCE: 037003/0277869  
 ; CURRENT APPLICATION NUMBER: US/09/791,551  
 ; CURRENT FILING DATE: 2001-02-26  
 ; PRIOR APPLICATION NUMBER: 60/185,390  
 ; PRIOR FILING DATE: 2000-02-28  
 ; PRIOR APPLICATION NUMBER: 60/233,625

; PRIOR FILING DATE: 2000-09-18  
; NUMBER OF SEQ ID NOS: 119  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 105  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Mus sp.  
US-09-791-551-105

Query Match 27.3%; Score 3; DB 11; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 WGA 8  
|||  
Db 1 WGA 3

RESULT 61

US-09-973-278-426

; Sequence 426, Application US/09973278  
; Publication No. US20040044191A1  
; GENERAL INFORMATION:  
; APPLICANT: Fischer et al.  
; TITLE OF INVENTION: 123 Human Secreted Proteins  
; FILE REFERENCE: PZ010P2  
; CURRENT APPLICATION NUMBER: US/09/973,278  
; CURRENT FILING DATE: 2001-10-10  
; PRIOR APPLICATION NUMBER: 60/239,899  
; PRIOR FILING DATE: 2000-10-13  
; PRIOR APPLICATION NUMBER: 09/227,357  
; PRIOR FILING DATE: 1999-01-08  
; PRIOR APPLICATION NUMBER: PCT/US98/13684  
; PRIOR FILING DATE: 1998-07-07  
; PRIOR APPLICATION NUMBER: 60/051,926  
; PRIOR FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: 60/052,793  
; PRIOR FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: 60/051,925  
; PRIOR FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: 60/051,929  
; PRIOR FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: 60/052,803  
; PRIOR FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: 60/052,732  
; PRIOR FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: 60/051,931  
; PRIOR FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: 60/051,932  
; PRIOR FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: 60/051,916  
; PRIOR FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: 60/051,930  
; PRIOR FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: 60/051,918  
; PRIOR FILING DATE: 1997-07-08  
; PRIOR APPLICATION NUMBER: 60/051,920

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; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/052,733
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/052,795
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/051,919
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/051,928
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/055,722
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,723
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,948
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,949
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,953
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,950
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,947
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,964
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/056,360
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,684
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,984
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,954
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/058,785
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 60/058,664
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 60/058,660
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 60/058,661
; PRIOR FILING DATE: 1997-09-12
; NUMBER OF SEQ ID NOS: 947
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 426
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-973-278-426

```

```

Query Match          27.3%;  Score 3;  DB 12;  Length 11;
Best Local Similarity 100.0%;  Pred. No. 8.4e+03;
Matches      3;  Conservative      0;  Mismatches      0;  Indels      0;  Gaps      0;

```

```

Qy      1 ARA 3
        |||
Db      2 ARA 4

```



RESULT 62

US-10-398-104-183

```
; Sequence 183, Application US/10398104
; Publication No. US20040047880A1
; GENERAL INFORMATION:
; APPLICANT: De Bolle, Xavier Thomas
; APPLICANT: Letesson, Jean-Jacques
; APPLICANT: Lobet, Yves
; APPLICANT: Mertens, Pascal Yvon
; APPLICANT: Poolman, Jan
; APPLICANT: Voet, Pierre
; TITLE OF INVENTION: COMPONENT FOR VACCINE
; FILE REFERENCE: B45242
; CURRENT APPLICATION NUMBER: US/10/398,104
; CURRENT FILING DATE: 2003-01-04
; PRIOR APPLICATION NUMBER: PCT/EP01/11409
; PRIOR FILING DATE: 2001-10-03
; PRIOR APPLICATION NUMBER: GB 0024200.8
; PRIOR FILING DATE: 2000-10-03
; NUMBER OF SEQ ID NOS: 352
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 183
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: LOS peptide mimotope sequence
US-10-398-104-183
```

```
Query Match          27.3%; Score 3; DB 12; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
```

```
Qy      2 RAL 4
        |||
Db      3 RAL 5
```

RESULT 63

US-10-149-135-124

```
; Sequence 124, Application US/10149135
; Publication No. US20040053822A1
; GENERAL INFORMATION:
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert
; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: Inducing Cellular Immune Responses to
; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions
; FILE REFERENCE: 2060.0130001
; CURRENT APPLICATION NUMBER: US/10/149,135
; CURRENT FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: PCT/US00/33545
```

; PRIOR FILING DATE: 2000-12-11  
 ; PRIOR APPLICATION NUMBER: US 09/458,298  
 ; PRIOR FILING DATE: 1999-12-10  
 ; PRIOR APPLICATION NUMBER: US 09/189,702  
 ; PRIOR FILING DATE: 1998-11-10  
 ; PRIOR APPLICATION NUMBER: US 08/205,713  
 ; PRIOR FILING DATE: 1994-03-04  
 ; PRIOR APPLICATION NUMBER: US 08/159,184  
 ; PRIOR FILING DATE: 1993-11-29  
 ; PRIOR APPLICATION NUMBER: US 08/073,205  
 ; PRIOR FILING DATE: 1993-06-04  
 ; PRIOR APPLICATION NUMBER: US 08/027,146  
 ; PRIOR FILING DATE: 1993-03-05  
 ; NUMBER OF SEQ ID NOS: 2479  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 124  
 ; LENGTH: 11  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Artificial Peptide  
 US-10-149-135-124

Query Match 27.3%; Score 3; DB 12; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
 |||  
 Db 6 RAL 8

RESULT 64  
 US-10-149-135-235  
 ; Sequence 235, Application US/10149135  
 ; Publication No. US20040053822A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Fikes, John  
 ; APPLICANT: Sette, Alessandro  
 ; APPLICANT: Sidney, John  
 ; APPLICANT: Southwood, Scott  
 ; APPLICANT: Chesnut, Robert  
 ; APPLICANT: Celis, Esteban  
 ; APPLICANT: Keogh, Elissa  
 ; TITLE OF INVENTION: Inducing Cellular Immune Responses to  
 ; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions  
 ; FILE REFERENCE: 2060.0130001  
 ; CURRENT APPLICATION NUMBER: US/10/149,135  
 ; CURRENT FILING DATE: 2000-12-11  
 ; PRIOR APPLICATION NUMBER: PCT/US00/33545  
 ; PRIOR FILING DATE: 2000-12-11  
 ; PRIOR APPLICATION NUMBER: US 09/458,298  
 ; PRIOR FILING DATE: 1999-12-10  
 ; PRIOR APPLICATION NUMBER: US 09/189,702  
 ; PRIOR FILING DATE: 1998-11-10  
 ; PRIOR APPLICATION NUMBER: US 08/205,713  
 ; PRIOR FILING DATE: 1994-03-04

; PRIOR APPLICATION NUMBER: US 08/159,184  
; PRIOR FILING DATE: 1993-11-29  
; PRIOR APPLICATION NUMBER: US 08/073,205  
; PRIOR FILING DATE: 1993-06-04  
; PRIOR APPLICATION NUMBER: US 08/027,146  
; PRIOR FILING DATE: 1993-03-05  
; NUMBER OF SEQ ID NOS: 2479  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 235  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial Peptide  
US-10-149-135-235

Query Match 27.3%; Score 3; DB 12; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 1 RAL 3

RESULT 65

US-10-149-135-322  
; Sequence 322, Application US/10149135  
; Publication No. US20040053822A1  
; GENERAL INFORMATION:  
; APPLICANT: Fikes, John  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; APPLICANT: Southwood, Scott  
; APPLICANT: Chesnut, Robert  
; APPLICANT: Celis, Esteban  
; APPLICANT: Keogh, Elissa  
; TITLE OF INVENTION: Inducing Cellular Immune Responses to  
; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions  
; FILE REFERENCE: 2060.0130001  
; CURRENT APPLICATION NUMBER: US/10/149,135  
; CURRENT FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: PCT/US00/33545  
; PRIOR FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: US 09/458,298  
; PRIOR FILING DATE: 1999-12-10  
; PRIOR APPLICATION NUMBER: US 09/189,702  
; PRIOR FILING DATE: 1998-11-10  
; PRIOR APPLICATION NUMBER: US 08/205,713  
; PRIOR FILING DATE: 1994-03-04  
; PRIOR APPLICATION NUMBER: US 08/159,184  
; PRIOR FILING DATE: 1993-11-29  
; PRIOR APPLICATION NUMBER: US 08/073,205  
; PRIOR FILING DATE: 1993-06-04  
; PRIOR APPLICATION NUMBER: US 08/027,146  
; PRIOR FILING DATE: 1993-03-05  
; NUMBER OF SEQ ID NOS: 2479

; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 322  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial Peptide  
US-10-149-135-322

Query Match 27.3%; Score 3; DB 12; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 6 RAL 8

RESULT 66

US-10-149-135-426  
; Sequence 426, Application US/10149135  
; Publication No. US20040053822A1  
; GENERAL INFORMATION:  
; APPLICANT: Fikes, John  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; APPLICANT: Southwood, Scott  
; APPLICANT: Chesnut, Robert  
; APPLICANT: Celis, Esteban  
; APPLICANT: Keogh, Elissa  
; TITLE OF INVENTION: Inducing Cellular Immune Responses to  
; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions  
; FILE REFERENCE: 2060.0130001  
; CURRENT APPLICATION NUMBER: US/10/149,135  
; CURRENT FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: PCT/US00/33545  
; PRIOR FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: US 09/458,298  
; PRIOR FILING DATE: 1999-12-10  
; PRIOR APPLICATION NUMBER: US 09/189,702  
; PRIOR FILING DATE: 1998-11-10  
; PRIOR APPLICATION NUMBER: US 08/205,713  
; PRIOR FILING DATE: 1994-03-04  
; PRIOR APPLICATION NUMBER: US 08/159,184  
; PRIOR FILING DATE: 1993-11-29  
; PRIOR APPLICATION NUMBER: US 08/073,205  
; PRIOR FILING DATE: 1993-06-04  
; PRIOR APPLICATION NUMBER: US 08/027,146  
; PRIOR FILING DATE: 1993-03-05  
; NUMBER OF SEQ ID NOS: 2479  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 426  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial Peptide

US-10-149-135-426

Query Match 27.3%; Score 3; DB 12; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 1 RAL 3

RESULT 67

US-10-149-135-535

; Sequence 535, Application US/10149135  
; Publication No. US20040053822A1  
; GENERAL INFORMATION:  
; APPLICANT: Fikes, John  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; APPLICANT: Southwood, Scott  
; APPLICANT: Chesnut, Robert  
; APPLICANT: Celis, Esteban  
; APPLICANT: Keogh, Elissa  
; TITLE OF INVENTION: Inducing Cellular Immune Responses to  
; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions  
; FILE REFERENCE: 2060.0130001  
; CURRENT APPLICATION NUMBER: US/10/149,135  
; CURRENT FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: PCT/US00/33545  
; PRIOR FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: US 09/458,298  
; PRIOR FILING DATE: 1999-12-10  
; PRIOR APPLICATION NUMBER: US 09/189,702  
; PRIOR FILING DATE: 1998-11-10  
; PRIOR APPLICATION NUMBER: US 08/205,713  
; PRIOR FILING DATE: 1994-03-04  
; PRIOR APPLICATION NUMBER: US 08/159,184  
; PRIOR FILING DATE: 1993-11-29  
; PRIOR APPLICATION NUMBER: US 08/073,205  
; PRIOR FILING DATE: 1993-06-04  
; PRIOR APPLICATION NUMBER: US 08/027,146  
; PRIOR FILING DATE: 1993-03-05  
; NUMBER OF SEQ ID NOS: 2479  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 535  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial Peptide  
US-10-149-135-535

Query Match 27.3%; Score 3; DB 12; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4

Db                    |||  
                      9 RAL 11

RESULT 68

US-10-149-135-663  
; Sequence 663, Application US/10149135  
; Publication No. US20040053822A1  
; GENERAL INFORMATION:  
; APPLICANT: Fikes, John  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; APPLICANT: Southwood, Scott  
; APPLICANT: Chesnut, Robert  
; APPLICANT: Celis, Esteban  
; APPLICANT: Keogh, Elissa  
; TITLE OF INVENTION: Inducing Cellular Immune Responses to  
; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions  
; FILE REFERENCE: 2060.0130001  
; CURRENT APPLICATION NUMBER: US/10/149,135  
; CURRENT FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: PCT/US00/33545  
; PRIOR FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: US 09/458,298  
; PRIOR FILING DATE: 1999-12-10  
; PRIOR APPLICATION NUMBER: US 09/189,702  
; PRIOR FILING DATE: 1998-11-10  
; PRIOR APPLICATION NUMBER: US 08/205,713  
; PRIOR FILING DATE: 1994-03-04  
; PRIOR APPLICATION NUMBER: US 08/159,184  
; PRIOR FILING DATE: 1993-11-29  
; PRIOR APPLICATION NUMBER: US 08/073,205  
; PRIOR FILING DATE: 1993-06-04  
; PRIOR APPLICATION NUMBER: US 08/027,146  
; PRIOR FILING DATE: 1993-03-05  
; NUMBER OF SEQ ID NOS: 2479  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 663  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial Peptide  
US-10-149-135-663

Query Match                    27.3%; Score 3; DB 12; Length 11;  
Best Local Similarity        100.0%; Pred. No. 8.4e+03;  
Matches        3; Conservative        0; Mismatches        0; Indels        0; Gaps        0;

Qy                    2 RAL 4  
                      |||  
Db                    9 RAL 11

RESULT 69

US-10-149-135-791  
; Sequence 791, Application US/10149135

```

; Publication No. US20040053822A1
; GENERAL INFORMATION:
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert
; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: Inducing Cellular Immune Responses to
; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions
; FILE REFERENCE: 2060.0130001
; CURRENT APPLICATION NUMBER: US/10/149,135
; CURRENT FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: PCT/US00/33545
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: US 09/458,298
; PRIOR FILING DATE: 1999-12-10
; PRIOR APPLICATION NUMBER: US 09/189,702
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: US 08/205,713
; PRIOR FILING DATE: 1994-03-04
; PRIOR APPLICATION NUMBER: US 08/159,184
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: US 08/073,205
; PRIOR FILING DATE: 1993-06-04
; PRIOR APPLICATION NUMBER: US 08/027,146
; PRIOR FILING DATE: 1993-03-05
; NUMBER OF SEQ ID NOS: 2479
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 791
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Peptide
US-10-149-135-791

```

```

Query Match          27.3%; Score 3; DB 12; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

```

```

Qy      2 RAL 4
        |||
Db      3 RAL 5

```

```

RESULT 70
US-10-149-135-832
; Sequence 832, Application US/10149135
; Publication No. US20040053822A1
; GENERAL INFORMATION:
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert

```

```

; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: Inducing Cellular Immune Responses to
; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions
; FILE REFERENCE: 2060.0130001
; CURRENT APPLICATION NUMBER: US/10/149,135
; CURRENT FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: PCT/US00/33545
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: US 09/458,298
; PRIOR FILING DATE: 1999-12-10
; PRIOR APPLICATION NUMBER: US 09/189,702
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: US 08/205,713
; PRIOR FILING DATE: 1994-03-04
; PRIOR APPLICATION NUMBER: US 08/159,184
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: US 08/073,205
; PRIOR FILING DATE: 1993-06-04
; PRIOR APPLICATION NUMBER: US 08/027,146
; PRIOR FILING DATE: 1993-03-05
; NUMBER OF SEQ ID NOS: 2479
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 832
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Peptide
US-10-149-135-832

```

```

Query Match          27.3%; Score 3; DB 12; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

```

```

Qy      2 RAL 4
        |||
Db      3 RAL 5

```

```

RESULT 71
US-10-149-135-949
; Sequence 949, Application US/10149135
; Publication No. US20040053822A1
; GENERAL INFORMATION:
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert
; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: Inducing Cellular Immune Responses to
; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions
; FILE REFERENCE: 2060.0130001
; CURRENT APPLICATION NUMBER: US/10/149,135
; CURRENT FILING DATE: 2000-12-11

```



```

; PRIOR APPLICATION NUMBER: PCT/US00/33545
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: US 09/458,298
; PRIOR FILING DATE: 1999-12-10
; PRIOR APPLICATION NUMBER: US 09/189,702
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: US 08/205,713
; PRIOR FILING DATE: 1994-03-04
; PRIOR APPLICATION NUMBER: US 08/159,184
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: US 08/073,205
; PRIOR FILING DATE: 1993-06-04
; PRIOR APPLICATION NUMBER: US 08/027,146
; PRIOR FILING DATE: 1993-03-05
; NUMBER OF SEQ ID NOS: 2479
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 949
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Peptide
US-10-149-135-949

```

```

Query Match          27.3%; Score 3; DB 12; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.4e+03;
Matches      3; Conservative      0; Mismatches      0; Indels      0; Gaps      0;

```

```

Qy      2 RAL 4
        |||
Db      9 RAL 11

```

# RESULT 72

```

US-10-149-135-966
; Sequence 966, Application US/10149135
; Publication No. US20040053822A1
; GENERAL INFORMATION:
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert
; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: Inducing Cellular Immune Responses to
; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions
; FILE REFERENCE: 2060.0130001
; CURRENT APPLICATION NUMBER: US/10/149,135
; CURRENT FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: PCT/US00/33545
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: US 09/458,298
; PRIOR FILING DATE: 1999-12-10
; PRIOR APPLICATION NUMBER: US 09/189,702
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: US 08/205,713

```

; PRIOR FILING DATE: 1994-03-04  
; PRIOR APPLICATION NUMBER: US 08/159,184  
; PRIOR FILING DATE: 1993-11-29  
; PRIOR APPLICATION NUMBER: US 08/073,205  
; PRIOR FILING DATE: 1993-06-04  
; PRIOR APPLICATION NUMBER: US 08/027,146  
; PRIOR FILING DATE: 1993-03-05  
; NUMBER OF SEQ ID NOS: 2479  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 966  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial Peptide  
US-10-149-135-966

Query Match 27.3%; Score 3; DB 12; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 1 RAL 3

RESULT 73

US-10-149-135-1053  
; Sequence 1053, Application US/10149135  
; Publication No. US20040053822A1  
; GENERAL INFORMATION:  
; APPLICANT: Fikes, John  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; APPLICANT: Southwood, Scott  
; APPLICANT: Chesnut, Robert  
; APPLICANT: Celis, Esteban  
; APPLICANT: Keogh, Elissa  
; TITLE OF INVENTION: Inducing Cellular Immune Responses to  
; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions  
; FILE REFERENCE: 2060.0130001  
; CURRENT APPLICATION NUMBER: US/10/149,135  
; CURRENT FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: PCT/US00/33545  
; PRIOR FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: US 09/458,298  
; PRIOR FILING DATE: 1999-12-10  
; PRIOR APPLICATION NUMBER: US 09/189,702  
; PRIOR FILING DATE: 1998-11-10  
; PRIOR APPLICATION NUMBER: US 08/205,713  
; PRIOR FILING DATE: 1994-03-04  
; PRIOR APPLICATION NUMBER: US 08/159,184  
; PRIOR FILING DATE: 1993-11-29  
; PRIOR APPLICATION NUMBER: US 08/073,205  
; PRIOR FILING DATE: 1993-06-04  
; PRIOR APPLICATION NUMBER: US 08/027,146  
; PRIOR FILING DATE: 1993-03-05

; NUMBER OF SEQ ID NOS: 2479  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1053  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial Peptide  
US-10-149-135-1053

Query Match 27.3%; Score 3; DB 12; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 1 RAL 3

RESULT 74

US-10-149-135-1106  
; Sequence 1106, Application US/10149135  
; Publication No. US20040053822A1  
; GENERAL INFORMATION:  
; APPLICANT: Fikes, John  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; APPLICANT: Southwood, Scott  
; APPLICANT: Chesnut, Robert  
; APPLICANT: Celis, Esteban  
; APPLICANT: Keogh, Elissa  
; TITLE OF INVENTION: Inducing Cellular Immune Responses to  
; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions  
; FILE REFERENCE: 2060.0130001  
; CURRENT APPLICATION NUMBER: US/10/149,135  
; CURRENT FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: PCT/US00/33545  
; PRIOR FILING DATE: 2000-12-11  
; PRIOR APPLICATION NUMBER: US 09/458,298  
; PRIOR FILING DATE: 1999-12-10  
; PRIOR APPLICATION NUMBER: US 09/189,702  
; PRIOR FILING DATE: 1998-11-10  
; PRIOR APPLICATION NUMBER: US 08/205,713  
; PRIOR FILING DATE: 1994-03-04  
; PRIOR APPLICATION NUMBER: US 08/159,184  
; PRIOR FILING DATE: 1993-11-29  
; PRIOR APPLICATION NUMBER: US 08/073,205  
; PRIOR FILING DATE: 1993-06-04  
; PRIOR APPLICATION NUMBER: US 08/027,146  
; PRIOR FILING DATE: 1993-03-05  
; NUMBER OF SEQ ID NOS: 2479  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1106  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:

; OTHER INFORMATION: Artificial Peptide  
US-10-149-135-1106

Query Match 27.3%; Score 3; DB 12; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 3 RAL 5

RESULT 75

US-10-149-135-1215

; Sequence 1215, Application US/10149135

; Publication No. US20040053822A1

; GENERAL INFORMATION:

; APPLICANT: Fikes, John

; APPLICANT: Sette, Alessandro

; APPLICANT: Sidney, John

; APPLICANT: Southwood, Scott

; APPLICANT: Chesnut, Robert

; APPLICANT: Celis, Esteban

; APPLICANT: Keogh, Elissa

; TITLE OF INVENTION: Inducing Cellular Immune Responses to

; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions

; FILE REFERENCE: 2060.0130001

; CURRENT APPLICATION NUMBER: US/10/149,135

; CURRENT FILING DATE: 2000-12-11

; PRIOR APPLICATION NUMBER: PCT/US00/33545

; PRIOR FILING DATE: 2000-12-11

; PRIOR APPLICATION NUMBER: US 09/458,298

; PRIOR FILING DATE: 1999-12-10

; PRIOR APPLICATION NUMBER: US 09/189,702

; PRIOR FILING DATE: 1998-11-10

; PRIOR APPLICATION NUMBER: US 08/205,713

; PRIOR FILING DATE: 1994-03-04

; PRIOR APPLICATION NUMBER: US 08/159,184

; PRIOR FILING DATE: 1993-11-29

; PRIOR APPLICATION NUMBER: US 08/073,205

; PRIOR FILING DATE: 1993-06-04

; PRIOR APPLICATION NUMBER: US 08/027,146

; PRIOR FILING DATE: 1993-03-05

; NUMBER OF SEQ ID NOS: 2479

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 1215

; LENGTH: 11

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Artificial Peptide

US-10-149-135-1215

Query Match 27.3%; Score 3; DB 12; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.4e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy            2 RAL 4  
              | | |  
Db            3 RAL 5

Search completed: April 8, 2004, 16:35:33  
Job time : 30.3077 secs

OM protein - protein search, using sw model

Run on: April 8, 2004, 15:30:07 ; Search time 8.61538 Seconds  
 (without alignments)  
 122.816 Million cell updates/sec

Title: US-09-787-443A-3  
 Perfect score: 11  
 Sequence: 1 ARALNWGAKPK 11

Scoring table: OLIGO  
 Gapop 60.0 , Gapext 60.0

Searched: 283366 seqs, 96191526 residues

Word size : 0

Total number of hits satisfying chosen parameters: 226

Minimum DB seq length: 11

Maximum DB seq length: 11

Post-processing: Listing first 100 summaries

Database : PIR\_78:\*  
 1: pirl:\*  
 2: pir2:\*  
 3: pir3:\*  
 4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	%		DB	ID	Description
		Query	Match Length			
1	3	27.3	11	2	B49164	chromogranin-B - r
2	3	27.3	11	2	S71304	amine oxidase (cop
3	3	27.3	11	2	PH1343	Ig heavy chain DJ
4	3	27.3	11	2	S23364	T-cell receptor al
5	2	18.2	11	1	XASNBA	bradykinin-potenti
6	2	18.2	11	1	SPHO	substance P - hors
7	2	18.2	11	1	A60654	substance P - guin
8	2	18.2	11	1	LFTWWE	probable trpEG lea
9	2	18.2	11	2	S66196	alcohol dehydrogen
10	2	18.2	11	2	A38841	rhodopsin homolog
11	2	18.2	11	2	S23308	substance P - rain
12	2	18.2	11	2	S23306	substance P - Atla
13	2	18.2	11	2	A61033	ranatachykinin A -

14	2	18.2	11	2	D61033	ranatachykinin D -
15	2	18.2	11	2	S42449	antl protein - pha
16	2	18.2	11	2	A58502	38K kidney stone p
17	2	18.2	11	2	C58501	42K bile stone pro
18	2	18.2	11	2	JQ0395	hypothetical prote
19	2	18.2	11	2	PQ0231	beta-glucosidase (
20	2	18.2	11	2	S66606	quinoline 2-oxidor
21	2	18.2	11	2	S04875	nifS protein - Bra
22	2	18.2	11	2	I41138	acetyl ornithine d
23	2	18.2	11	2	S42587	celF protein - Esc
24	2	18.2	11	2	B43669	hypothetical prote
25	2	18.2	11	2	PC2372	58K heat shock pro
26	2	18.2	11	2	E41476	probable antigen 5
27	2	18.2	11	2	G61497	seed protein ws-23
28	2	18.2	11	2	PC4267	ribosomal protein
29	2	18.2	11	2	PQ0731	unidentified 5.7/3
30	2	18.2	11	2	A26120	6-phosphofructokin
31	2	18.2	11	2	S33300	probable substance
32	2	18.2	11	2	E57789	gallbladder stone
33	2	18.2	11	2	PT0249	Ig heavy chain CRD
34	2	18.2	11	2	S51732	T-cell receptor al
35	2	18.2	11	2	A33571	follicstatin - bovi
36	2	18.2	11	2	S78765	ribosomal protein
37	2	18.2	11	2	A14454	6-phosphofructokin
38	2	18.2	11	2	PN0664	dystrophin-associa
39	2	18.2	11	2	PH1632	Ig H chain V-D-J r
40	2	18.2	11	2	PH1600	Ig H chain V-D-J r
41	2	18.2	11	2	PH1583	Ig H chain V-D-J r
42	2	18.2	11	2	PH1584	Ig H chain V-D-J r
43	2	18.2	11	2	PT0209	T-cell receptor al
44	2	18.2	11	2	PT0214	T-cell receptor be
45	2	18.2	11	2	PT0218	T-cell receptor be
46	2	18.2	11	2	PD0441	translation elonga
47	2	18.2	11	2	S65377	cytochrome-c oxida
48	2	18.2	11	2	S09349	microtubule-associ
49	2	18.2	11	2	PH0939	T-cell receptor be
50	2	18.2	11	2	PH0903	T-cell receptor be
51	2	18.2	11	4	S19015	hypothetical prote
52	2	18.2	11	4	I54081	retinoic acid rece
53	1	9.1	11	1	XAVIBH	bradykinin-potenti
54	1	9.1	11	1	ECLQ2M	tachykinin II - mi
55	1	9.1	11	1	EOOCC	eledoisin - curled
56	1	9.1	11	1	EOOC	eledoisin - musky
57	1	9.1	11	1	GMROL	leucosulfakinin -
58	1	9.1	11	2	G42762	proteasome endopep
59	1	9.1	11	2	S68392	H+-transporting tw
60	1	9.1	11	2	A33917	dihydroorotase (EC
61	1	9.1	11	2	JN0023	substance P - chic
62	1	9.1	11	2	S32575	ribosomal protein
63	1	9.1	11	2	A40693	transgelin - sheep
64	1	9.1	11	2	PQ0682	photosystem I 17.5
65	1	9.1	11	2	S00616	parasporal crystal
66	1	9.1	11	2	C53652	rhlR protein - Pse
67	1	9.1	11	2	S09074	cytochrome P450-4b
68	1	9.1	11	2	A57458	gene Gax protein -
69	1	9.1	11	2	A26930	ermG leader peptid
70	1	9.1	11	2	D60409	kassinin-like pept

71	1	9.1	11	2	F60409	substance P-like p
72	1	9.1	11	2	E60409	substance P-like p
73	1	9.1	11	2	YHRT	morphogenetic neur
74	1	9.1	11	2	YHHU	morphogenetic neur
75	1	9.1	11	2	YHBO	morphogenetic neur
76	1	9.1	11	2	YHXAE	morphogenetic neur
77	1	9.1	11	2	YHJFHY	morphogenetic neur
78	1	9.1	11	2	A61365	phyllokinin - Rohd
79	1	9.1	11	2	B26744	megascalakiakinin -
80	1	9.1	11	2	B60409	kassinin-like pept
81	1	9.1	11	2	C60409	kassinin-like pept
82	1	9.1	11	2	S07203	uperolein - frog (
83	1	9.1	11	2	S07207	Crinia-angiotensin
84	1	9.1	11	2	S07201	physalaemin - frog
85	1	9.1	11	2	B58501	24K kidney and bla
86	1	9.1	11	2	D58502	27K bile and gallb
87	1	9.1	11	2	F58501	43.5K bile stone p
88	1	9.1	11	2	S58244	pyrroloquinoline q
89	1	9.1	11	2	S35490	type II site-speci
90	1	9.1	11	2	S21127	precorrin methyltr
91	1	9.1	11	2	S70720	trigger factor hom
92	1	9.1	11	2	S33782	acetolactate synth
93	1	9.1	11	2	B39853	LuxC protein - Pho
94	1	9.1	11	2	A58838	hemolysin - Porphy
95	1	9.1	11	2	E60691	phycobilisome 8K 1
96	1	9.1	11	2	D60691	phycobilisome 9K 1
97	1	9.1	11	2	PC2330	cycloinulooligosac
98	1	9.1	11	2	B41835	translation elonga
99	1	9.1	11	2	S14087	parasporal crystal
100	1	9.1	11	2	A44755	20alpha-hydroxyste

#### ALIGNMENTS

##### RESULT 1

B49164

chromogranin-B - rat (fragment)

C;Species: Rattus norvegicus (Norway rat)

C;Date: 19-Dec-1993 #sequence\_revision 18-Nov-1994 #text\_change 31-Oct-1997

C;Accession: B49164

R;Nielsen, E.; Welinder, B.S.; Madsen, O.D.

Endocrinology 129, 3147-3156, 1991

A;Title: Chromogranin-B, a putative precursor of eight novel rat glucagonoma peptides through processing at mono-, di-, or tribasic residues.

A;Reference number: A49164; MUID:92063871; PMID:1954895

A;Accession: B49164

A;Status: preliminary

A;Molecule type: protein

A;Residues: 1-11 <NIE>

A;Note: sequence extracted from NCBI backbone (NCBIP:66370)

C;Superfamily: chromogranin B precursor

Query Match 27.3%; Score 3; DB 2; Length 11;

Best Local Similarity 100.0%; Pred. No. 2.5e+03;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



Qy 5 NWG 7  
|||  
Db 7 NWG 9

RESULT 2

S71304

amine oxidase (copper-containing) (EC 1.4.3.6) II - Aspergillus niger (fragment)

C;Species: Aspergillus niger

C;Date: 12-Feb-1998 #sequence\_revision 01-May-1998 #text\_change 07-May-1999

C;Accession: S71304

R;Frebort, I.; Tamaki, H.; Ishida, H.; Pec, P.; Luhova, L.; Tsuno, H.; Halata, M.; Asano, Y.; Kato, Y.; Matsushita, K.; Toyama, H.; Kumagai, H.; Adachi, O. Eur. J. Biochem. 237, 255-265, 1996

A;Title: Two distinct quinoprotein amine oxidases are induced by n-butylamine in the mycelia of Aspergillus niger AKU 3302: purification, characterization, cDNA cloning and sequencing.

A;Reference number: S71303; MUID:96203933; PMID:8620882

A;Accession: S71304

A;Molecule type: protein

A;Residues: 1-11 <FRE>

C;Keywords: copper binding; monomer; oxidoreductase; quinoprotein; topaquinone

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 ALN 5  
|||  
Db 5 ALN 7

RESULT 3

PH1343

Ig heavy chain DJ region (clone C100-91) - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 30-Sep-1993 #sequence\_revision 30-Sep-1993 #text\_change 07-May-1999

C;Accession: PH1343

R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G. J. Exp. Med. 176, 1577-1581, 1992

A;Title: Predominance of fetal type DJH joining in young children with B precursor lymphoblastic leukemia as evidence for an in utero transforming event.

A;Reference number: PH1302; MUID:93094761; PMID:1460419

A;Accession: PH1343

A;Molecule type: DNA

A;Residues: 1-11 <WAS>

C;Keywords: heterotetramer; immunoglobulin

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 NWG 7  
|||  
Db 6 NWG 8

RESULT 4

S23364

T-cell receptor alpha chain J region - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 22-Nov-1993 #sequence\_revision 26-May-1995 #text\_change 17-Mar-1999

C;Accession: S23364

R;Pluschke, G.; Ricken, G.; Taube, H.; Kroninger, S.; Melchers, I.; Peter, H.H.; Eichmann, K.; Krawinkel, U.

Eur. J. Immunol. 21, 2749-2754, 1991

A;Title: Biased T cell receptor V(alpha) region repertoire in the synovial fluid of rheumatoid arthritis patients.

A;Reference number: S23364; MUID:92037820; PMID:1657615

A;Accession: S23364

A;Status: preliminary; translation not shown

A;Molecule type: mRNA

A;Residues: 1-11 <PLU>

A;Cross-references: EMBL:X58164

C;Keywords: T-cell receptor

Query Match 27.3%; Score 3; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 ALN 5  
|||  
Db 8 ALN 10

RESULT 5

XASNBA

bradykinin-potentiating peptide B - mamushi

C;Species: Agkistrodon blomhoffi (mamushi)

C;Date: 13-Jul-1981 #sequence\_revision 13-Jul-1981 #text\_change 08-Dec-1995

C;Accession: A01254

R;Kato, H.; Suzuki, T.

Proc. Jpn. Acad. 46, 176-181, 1970

A;Reference number: A01254

A;Accession: A01254

A;Molecule type: protein

A;Residues: 1-11 <KAT>

A;Note: the sequence of the natural peptide was confirmed by the synthesis and analysis of a peptide having the identical structure and biological properties

C;Superfamily: bradykinin-potentiating peptide

C;Keywords: angiotensin-converting enzyme inhibitor; bradykinin; pyroglutamic acid; venom

F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

Query Match 18.2%; Score 2; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
||  
Db 7 PK 8

RESULT 6

SPHO

substance P - horse

C;Species: Equus caballus (domestic horse)

C;Date: 23-Oct-1981 #sequence\_revision 23-Oct-1981 #text\_change 23-Aug-1996

C;Accession: A01558

R;Studer, R.O.; Trzeciak, A.; Lergier, W.

Helv. Chim. Acta 56, 860-866, 1973

A;Title: Isolierung und Aminosaeuresequenz von Substanz P aus Pferdedarm.

A;Reference number: A01558

A;Accession: A01558

A;Molecule type: protein

A;Residues: 1-11 <STU>

C;Superfamily: substance P precursor

C;Keywords: amidated carboxyl end; hormone

F;11/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 18.2%; Score 2; DB 1; Length 11;

Best Local Similarity 100.0%; Pred. No. 2.8e+04;

Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11

||

Db 2 PK 3

RESULT 7

A60654

substance P - guinea pig

C;Species: Cavia porcellus (guinea pig)

C;Date: 14-May-1993 #sequence\_revision 27-Jun-1994 #text\_change 08-Dec-1995

C;Accession: A60654

R;Murphy, R.

Neuropeptides 14, 105-110, 1989

A;Title: Primary amino acid sequence of guinea-pig substance P.

A;Reference number: A60654; MUID:90044685; PMID:2478925

A;Accession: A60654

A;Molecule type: protein

A;Residues: 1-11 <MUR>

C;Superfamily: substance P precursor

C;Keywords: amidated carboxyl end; neuropeptide; tachykinin

F;11/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 18.2%; Score 2; DB 1; Length 11;

Best Local Similarity 100.0%; Pred. No. 2.8e+04;

Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11

||

Db 2 PK 3

RESULT 8

LETWWE

probable trpEG leader peptide - Thermus aquaticus

C;Species: Thermus aquaticus

C;Date: 30-Jun-1991 #sequence\_revision 30-Jun-1991 #text\_change 16-Jul-1999

C;Accession: S03315

R;Sato, S.; Nakada, Y.; Kanaya, S.; Tanaka, T.  
 Biochim. Biophys. Acta 950, 303-312, 1988  
 A;Title: Molecular cloning and nucleotide sequence of *Thermus thermophilus* HB8 trpE and trpG.  
 A;Reference number: S03315; MUID:89000781; PMID:2844259  
 A;Accession: S03315  
 A;Molecule type: DNA  
 A;Residues: 1-11 <SAT>  
 A;Cross-references: EMBL:X07744; NID:g48261; PIDN:CAA30565.1; PID:g48262  
 A;Note: the source is designated as *Thermus thermophilus* HB8  
 C;Genetics:  
 A;Gene: trpL  
 C;Superfamily: probable trpEG leader peptide

Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
 ||  
 Db 2 AL 3

#### RESULT 9

S66196  
 alcohol dehydrogenase (EC 1.1.1.1) class III high affinity form - cod (*Gadus* sp.) (fragment)  
 C;Species: *Gadus* sp. (cod)  
 C;Date: 14-Feb-1997 #sequence\_revision 13-Mar-1997 #text\_change 12-Jun-1998  
 C;Accession: S66196  
 R;Hjelmqvist, L.; Hackett, M.; Shafqat, J.; Danielsson, O.; Iida, J.; Hendrickson, R.C.; Michel, H.; Shabanowitz, J.; Hunt, D.F.; Joernvall, H. FEBS Lett. 367, 237-240, 1995  
 A;Title: Multiplicity of N-terminal structures of medium-chain alcohol dehydrogenases. Mass-spectrometric analysis of plant, lower vertebrate and higher vertebrate class I, II, and III forms of the enzyme.  
 A;Reference number: S66191; MUID:95331382; PMID:7607314  
 A;Accession: S66196  
 A;Molecule type: protein  
 A;Residues: 1-11 <HJE>  
 C;Superfamily: alcohol dehydrogenase; long-chain alcohol dehydrogenase homology  
 C;Keywords: alcohol metabolism; NAD; oxidoreductase

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RA 3  
 ||  
 Db 5 RA 6

#### RESULT 10

A38841  
 rhodopsin homolog - squid (*Watasenia scintillans*) (fragment)  
 N;Alternate names: visual pigment protein  
 C;Species: *Watasenia scintillans* (sparkling enope)

C;Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 31-Oct-1997  
C;Accession: A38841  
R;Seidou, M.; Kubota, I.; Hiraki, K.; Kito, Y.  
Biochim. Biophys. Acta 957, 318-321, 1988  
A;Title: Amino acid sequence of the retinal binding site of squid visual pigment.  
A;Reference number: PT0063; MUID:89051045; PMID:3191148  
A;Accession: A38841  
A;Molecule type: protein  
A;Residues: 1-11 <SEI>  
C;Superfamily: vertebrate rhodopsin  
C;Keywords: chromoprotein; retinal  
F;3/Binding site: retinal (Lys) (covalent) #status experimental

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AK 9  
||  
Db 2 AK 3

RESULT 11

S23308

substance P - rainbow trout

C;Species: Oncorhynchus mykiss (rainbow trout)

C;Date: 19-Mar-1997 #sequence\_revision 19-Mar-1997 #text\_change 18-Aug-2000

C;Accession: S23308

R;Jensen, J.; Conlon, J.M.

Eur. J. Biochem. 206, 659-664, 1992

A;Title: Substance-P-related and neurokinin-A-related peptides from the brain of the cod and trout.

A;Reference number: S23186; MUID:92298992; PMID:1376687

A;Accession: S23308

A;Molecule type: protein

A;Residues: 1-11 <JEN>

A;Experimental source: brain

C;Function:

A;Description: may play a physiological role in the regulation of cardiovascular and gastrointestinal functions

A;Note: substance P is derived by post-translational processing of preprotachykinin A

C;Superfamily: unassigned animal peptides

C;Keywords: neuropeptide; amidated carboxyl end; tachykinin

F;11/Modified site: amidated carboxyl end (Met) #status predicted

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10  
||  
Db 1 KP 2

RESULT 12

S23306

substance P - Atlantic cod

C;Species: *Gadus morhua* (Atlantic cod)

C;Date: 19-Mar-1997 #sequence\_revision 19-Mar-1997 #text\_change 18-Aug-2000

C;Accession: S23306

R;Jensen, J.; Conlon, J.M.

Eur. J. Biochem. 206, 659-664, 1992

A;Title: Substance-P-related and neurokinin-A-related peptides from the brain of the cod and trout.

A;Reference number: S23186; MUID:92298992; PMID:1376687

A;Accession: S23306

A;Molecule type: protein

A;Residues: 1-11 <JEN>

A;Experimental source: brain

C;Function:

A;Description: may play a physiological role in the regulation of cardiovascular and gastrointestinal functions

A;Note: substance P is derived by post-translational processing of preprotachykinin A

C;Superfamily: unassigned animal peptides

C;Keywords: neuropeptide; amidated carboxyl end; tachykinin

F;11/Modified site: amidated carboxyl end (Met) #status predicted

Query Match 18.2%; Score 2; DB 2; Length 11;

Best Local Similarity 100.0%; Pred. No. 2.8e+04;

Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10

||

Db 1 KP 2

#### RESULT 13

A61033

ranatachykinin A - bullfrog

C;Species: *Rana catesbeiana* (bullfrog)

C;Date: 31-Dec-1993 #sequence\_revision 31-Dec-1993 #text\_change 18-Aug-2000

C;Accession: A61033; JE0426

R;Kangawa, K.; Kozawa, H.; Hino, J.; Minamino, N.; Matsuo, H.

Regul. Pept. 42(Suppl.1), S12, 1992

A;Title: Isolation of four novel tachykinins from frog (*Rana catesbeiana*) brain and intestine.

A;Reference number: A61033

A;Accession: A61033

A;Molecule type: protein

A;Residues: 1-11 <KAN>

R;Kozawa, H.; Hino, J.; Minamino, N.; Kangawa, K.; Matsuo, H.

Biochem. Biophys. Res. Commun. 177, 588-595, 1991

A;Title: Isolation of four novel tachykinins from frog (*Rana catesbeiana*) brain and intestine.

A;Reference number: JE0426; MUID:91254337; PMID:2043143

A;Accession: JE0426

A;Molecule type: protein

A;Residues: 1-11 <KOZ>

C;Superfamily: unassigned animal peptides

C;Keywords: amidated carboxyl end; neuropeptide

F;11/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10  
||  
Db 1 KP 2

RESULT 14

D61033

ranatachykinin D - bullfrog

C;Species: Rana catesbeiana (bullfrog)

C;Date: 31-Dec-1993 #sequence\_revision 31-Dec-1993 #text\_change 18-Aug-2000

C;Accession: D61033; JE0429

R;Kangawa, K.; Kozawa, H.; Hino, J.; Minamino, N.; Matsuo, H.

Regul. Pept. 42(Suppl.1), S12, 1992

A;Title: Isolation of four novel tachykinins from frog (Rana catesbeiana) brain and intestine.

A;Reference number: A61033

A;Accession: D61033

A;Molecule type: protein

A;Residues: 1-11 <KAN>

R;Kozawa, H.; Hino, J.; Minamino, N.; Kangawa, K.; Matsuo, H.

Biochem. Biophys. Res. Commun. 177, 588-595, 1991

A;Title: Isolation of four novel tachykinins from frog (Rana catesbeiana) brain and intestine.

A;Reference number: JE0426; MUID:91254337; PMID:2043143

A;Accession: JE0429

A;Molecule type: protein

A;Residues: 1-11 <KOZ>

C;Superfamily: unassigned animal peptides

C;Keywords: amidated carboxyl end; neuropeptide

F;11/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10  
||  
Db 1 KP 2

RESULT 15

S42449

ant1 protein - phage P7

C;Species: phage P7

C;Date: 07-Sep-1994 #sequence\_revision 26-May-1995 #text\_change 08-Oct-1999

C;Accession: S42449

R;Citron, M.; Schuster, H.

Cell 62, 591-598, 1990

A;Title: The c4 repressors of bacteriophages P1 and P7 are antisense RNAs.

A;Reference number: S42448; MUID:90335968; PMID:1696181

A;Accession: S42449

A;Status: preliminary; translation not shown

A;Molecule type: DNA  
A;Residues: 1-11 <CIT>  
A;Cross-references: EMBL:M35139; NID:g215705; PIDN:AAA32437.1; PID:g215707

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10  
||  
Db 3 KP 4

RESULT 16

A58502

38K kidney stone protein - unidentified bacterium (fragment)

C;Species: unidentified bacterium

C;Date: 07-Feb-1997 #sequence\_revision 07-Feb-1997 #text\_change 10-Jul-1998

C;Accession: A58502

R;Binette, J.P.; Binette, M.B.

submitted to the Protein Sequence Database, October 1996

A;Description: The proteins of kidney and gallbladder stones.

A;Reference number: A58501

A;Accession: A58502

A;Status: preliminary

A;Molecule type: protein

A;Residues: 1-11 <BIN>

A;Experimental source: human kidney stone containing Ca ox.mono and dihyd, 1% struvite, CaPO4 carbonate & hydrox., and 4% protein

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
||  
Db 5 GA 6

RESULT 17

C58501

42K bile stone protein - unidentified bacterium (fragment)

C;Species: unidentified bacterium

C;Date: 07-Feb-1997 #sequence\_revision 07-Feb-1997 #text\_change 10-Jul-1998

C;Accession: C58501

R;Binette, J.P.; Binette, M.B.

submitted to the Protein Sequence Database, October 1996

A;Description: The proteins of kidney and gallbladder stones.

A;Reference number: A58501

A;Accession: C58501

A;Status: preliminary

A;Molecule type: protein

A;Residues: 1-11 <BIN>

A;Experimental source: human bile with stones

A;Note: tentative identification of 1-Gly

Query Match 18.2%; Score 2; DB 2; Length 11;



Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
||  
Db 9 GA 10

RESULT 18

JQ0395

hypothetical protein (nodB 3' region) - Azorhizobium caulinodans

N;Alternate names: hypothetical 1.4K protein

C;Species: Azorhizobium caulinodans

A;Note: host Sesbania rostrata

C;Date: 07-Sep-1990 #sequence\_revision 07-Sep-1990 #text\_change 03-Feb-1994

C;Accession: JQ0395

R;Goethals, K.; Gao, M.; Tomekpe, K.; Van Montagu, M.; Holsters, M.

Mol. Gen. Genet. 219, 289-298, 1989

A;Title: Common nodABC genes in Nod locus 1 of Azorhizobium caulinodans:  
nucleotide sequence and plant-inducible expression.

A;Reference number: JQ0393; MUID:90136519; PMID:2615763

A;Accession: JQ0395

A;Molecule type: DNA

A;Residues: 1-11 <GOE>

A;Cross-references: GB:L18897

A;Experimental source: strain ORS571

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
||  
Db 10 AR 11

RESULT 19

PQ0231

beta-glucosidase (EC 3.2.1.21) - Cellvibrio gilvus (fragment)

C;Species: Cellvibrio gilvus

C;Date: 31-Mar-1992 #sequence\_revision 31-Mar-1992 #text\_change 07-May-1999

C;Accession: PQ0231

R;Kashiwagi, Y.; Iijima, C.; Sasaki, T.; Taniguchi, H.

Agric. Biol. Chem. 55, 2553-2559, 1991

A;Title: Characterization of a beta-glucosidase encoded by a gene from  
Cellvibrio gilvus.

A;Reference number: PQ0231; MUID:92144103; PMID:1368758

A;Accession: PQ0231

A;Molecule type: protein

A;Residues: 1-11 <KAS>

C;Keywords: glycosidase; hydrolase; polysaccharide degradation

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10

||  
Db 10 KP 11

RESULT 20

S66606

quinoline 2-oxidoreductase alpha chain - Comamonas testosteroni (fragment)

C;Species: Comamonas testosteroni

C;Date: 15-Feb-1997 #sequence\_revision 13-Mar-1997 #text\_change 17-Mar-1999

C;Accession: S66606

R;Schach, S.; Tshisuaka, B.; Fetzner, S.; Lingens, F.

Eur. J. Biochem. 232, 536-544, 1995

A;Title: Quinoline 2-oxidoreductase and 2-oxo-1,2-dihydroquinoline 5,6-dioxygenase from Comamonas testosteroni 63. The first two enzymes in quinoline and 3-methylquinoline degradation.

A;Reference number: S66606; MUID:96035889; PMID:7556204

A;Accession: S66606

A;Molecule type: protein

A;Residues: 1-11 <SCH>

A;Experimental source: strain 63

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AK 9

||

Db 1 AK 2

RESULT 21

S04875

nifs protein - Bradyrhizobium japonicum (fragment)

C;Species: Bradyrhizobium japonicum

C;Date: 07-Sep-1990 #sequence\_revision 07-Sep-1990 #text\_change 08-Oct-1999

C;Accession: S04875

R;Ebeling, S.

submitted to the EMBL Data Library, December 1988

A;Reference number: S04873

A;Accession: S04875

A;Molecule type: DNA

A;Residues: 1-11 <EBE>

A;Cross-references: EMBL:X13691; NID:g39544; PIDN:CAA31982.1; PID:g580775

C;Genetics:

A;Gene: nifs

A;Start codon: GTG

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RA 3

||

Db 5 RA 6

RESULT 22

I41138

acetyl ornithine deacetylase (argE) - Escherichia coli (fragment)

C;Species: Escherichia coli

C;Date: 31-May-1996 #sequence\_revision 31-May-1996 #text\_change 08-Oct-1999

C;Accession: I41138

R;Charlier, D.; Piette, J.; Glansdorff, N.

Nucleic Acids Res. 10, 5935-5948, 1982

A;Title: is3 can function as a mobile promoter in e.coli.

A;Reference number: I41137; MUID:83064529; PMID:6292860

A;Accession: I41138

A;Status: preliminary; translated from GB/EMBL/DDBJ

A;Molecule type: DNA

A;Residues: 1-11 <RES>

A;Cross-references: GB:J01589; NID:g145346; PIDN:AAA23485.1; PID:g551788

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LN 5  
||  
Db 2 LN 3

RESULT 23

S42587

celF protein - Escherichia coli (fragment)

C;Species: Escherichia coli

C;Date: 25-Dec-1994 #sequence\_revision 10-Nov-1995 #text\_change 10-Nov-1995

C;Accession: S42587

R;Guzzo, A.; DuBow, M.S.

Mol. Gen. Genet. 242, 455-460, 1994

A;Title: A luxAB transcriptional fusion to the cryptic celF gene of Escherichia coli displays increased luminescence in the presence of nickel.

A;Reference number: S42587; MUID:94166755; PMID:8121401

A;Accession: S42587

A;Molecule type: DNA

A;Residues: 1-11 <GUZ>

C;Genetics:

A;Gene: celF

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
||  
Db 4 GA 5

RESULT 24

B43669

hypothetical protein (rhdA 5' region) - Synechococcus sp. (fragment)

C;Species: Synechococcus sp.

C;Date: 03-Mar-1993 #sequence\_revision 03-Mar-1993 #text\_change 30-Sep-1993

C;Accession: B43669

R;Laudenbach, D.E.; Ehrhardt, D.; Green, L.; Grossman, A.

J. Bacteriol. 173, 2751-2760, 1991

A;Title: Isolation and characterization of a sulfur-regulated gene encoding a periplasmically localized protein with sequence similarity to rhodanese.

A;Reference number: A43669; MUID:91210163; PMID:1708376

A;Accession: B43669

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-11 <LAU>

A;Cross-references: GB:M65244

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AK 9

||

Db 6 AK 7

#### RESULT 25

PC2372

58K heat shock protein groEL [similarity] - Bacillus cereus (strain ts-4)  
(fragment)

C;Species: Bacillus cereus

C;Date: 20-Apr-2000 #sequence\_revision 20-Apr-2000 #text\_change 20-Apr-2000

C;Accession: PC2372

R;Matsuno, K.; Miyamoto, T.; Yamaguchi, K.; Sayed, M.A.; Kajiware, T.; Hatano, S.

Biosci. Biotechnol. Biochem. 59, 231-235, 1995

A;Title: Identification of DNA-binding proteins changed after induction of sporulation in Bacillus cereus.

A;Reference number: PC2369; MUID:95218265; PMID:7766022

A;Accession: PC2372

A;Status: preliminary

A;Molecule type: protein

A;Residues: 1-11 <MAS>

C;Keywords: heat shock; molecular chaperone; stress-induced protein

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2

||

Db 10 AR 11

#### RESULT 26

E41476

probable antigen 5 - Mycobacterium leprae (fragment)

C;Species: Mycobacterium leprae

C;Date: 10-Apr-1992 #sequence\_revision 10-Apr-1992 #text\_change 18-Jun-1993

C;Accession: E41476

R;Hartskeerl, R.A.; van Rens, R.M.; Stabel, L.F.E.M.; de Wit, M.Y.L.; Klatser, P.R.

Infect. Immun. 58, 2821-2827, 1990

A;Title: Selection and characterization of recombinant clones that produce Mycobacterium leprae antigens recognized by antibodies in sera from household contacts of leprosy patients.

A;Reference number: A41476; MUID:90354041; PMID:1696931

A;Accession: E41476

A;Status: preliminary; not compared with conceptual translation

A;Molecule type: DNA

A;Residues: 1-11 <HAR>

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
||  
Db 8 GA 9

#### RESULT 27

G61497

seed protein ws-23 - winged bean (fragment)

C;Species: Psophocarpus tetragonolobus (winged bean)

C;Date: 07-Oct-1994 #sequence\_revision 07-Oct-1994 #text\_change 07-Oct-1994

C;Accession: G61497

R;Hirano, H.

J. Protein Chem. 8, 115-130, 1989

A;Title: Microsequence analysis of winged bean seed proteins electroblotted from two-dimensional gel.

A;Reference number: A61491; MUID:89351606; PMID:2765119

A;Accession: G61497

A;Status: preliminary

A;Molecule type: protein

A;Residues: 1-11 <HIR>

C;Keywords: glycoprotein; seed

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AK 9  
||  
Db 1 AK 2

#### RESULT 28

PC4267

ribosomal protein L12.1 - rice (fragment)

C;Species: Oryza sativa (rice)

C;Date: 28-May-1997 #sequence\_revision 18-Jul-1997 #text\_change 18-Jul-1997

C;Accession: PC4267

R;Kawakami, T.; Kamo, M.; Chen, M.C.; Tsugita, A.  
submitted to JIPID, April 1997

A;Reference number: PC4267

A;Accession: PC4267

A;Molecule type: protein

A;Residues: 1-11 <KAW>

A;Experimental source: strain Japonica Nihonbare

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
||  
Db 7 PK 8

RESULT 29

PQ0731

unidentified 5.7/35K protein [imported] - rice (fragment)

C;Species: Oryza sativa (rice)

C;Date: 20-Apr-2000 #sequence\_revision 20-Apr-2000 #text\_change 20-Apr-2000

C;Accession: PQ0731

R;Komatsu, S.; Kajiwara, H.; Hirano, H.

Theor. Appl. Genet. 86, 935-942, 1993

A;Title: A rice protein library; a data-file of rice proteins separated by two-dimensional electrophoresis.

A;Reference number: PQ0696

A;Accession: PQ0731

A;Status: preliminary

A;Molecule type: protein

A;Residues: 1-11 <KOM>

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
||  
Db 6 PK 7

RESULT 30

A26120

6-phosphofructokinase (EC 2.7.1.11) - pig roundworm (fragment)

N;Alternate names: phosphofructokinase; phosphohexokinase

C;Species: Ascaris suum (pig roundworm)

C;Date: 15-Dec-1988 #sequence\_revision 15-Dec-1988 #text\_change 28-Apr-1993

C;Accession: A26120

R;Kulkarni, G.; Rao, G.S.J.; Srinivasan, N.G.; Hofer, H.W.; Yuan, P.M.; Harris, B.G.

J. Biol. Chem. 262, 32-34, 1987

A;Title: Ascaris suum phosphofructokinase. Phosphorylation by protein kinase and sequence of the phosphopeptide.

A;Reference number: A26120; MUID:87083467; PMID:3025208

A;Accession: A26120

A;Molecule type: protein

A;Residues: 1-11 <KUL>

C;Keywords: glycolysis; phosphotransferase

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy            8 AK 9  
              ||  
Db            1 AK 2

RESULT 31

S33300

probable substance P - smaller spotted catshark

C;Species: Scyliorhinus canicula (smaller spotted catshark, smaller spotted dogfish)

C;Date: 19-Mar-1997 #sequence\_revision 19-Mar-1997 #text\_change 24-Mar-1999

C;Accession: S33300

R;Waugh, D.; Wang, Y.; Hazon, N.; Balment, R.J.; Conlon, J.M.

Eur. J. Biochem. 214, 469-474, 1993

A;Title: Primary structures and biological activities of substance-P-related peptides from the brain of the dogfish, Scyliorhinus canicula.

A;Reference number: S33300; MUID:93292508; PMID:7685693

A;Accession: S33300

A;Molecule type: protein

A;Residues: 1-11 <WAU>

A;Experimental source: brain

C;Function:

A;Description: may play a physiological role in the regulation of cardiovascular and gastrointestinal functions

A;Note: substance P is derived by post-translational processing of preprotachykinin A

C;Keywords: amidated carboxyl end; neuropeptide; tachykinin

F;11/Modified site: amidated carboxyl end (Met) #status predicted

Query Match                    18.2%;    Score 2;    DB 2;    Length 11;  
Best Local Similarity    100.0%;    Pred. No. 2.8e+04;  
Matches        2;    Conservative        0;    Mismatches        0;    Indels        0;    Gaps        0;

Qy            9 KP 10  
              ||  
Db            1 KP 2

RESULT 32

E57789

gallbladder stone matrix protein, 25K - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 23-Feb-1996 #sequence\_revision 23-Feb-1996 #text\_change 23-Feb-1996

C;Accession: E57789

R;Binette, J.P.; Binette, M.B.

submitted to the Protein Sequence Database, February 1996

A;Description: The proteins of gallbladder stones.

A;Reference number: A57789

A;Accession: E57789

A;Status: preliminary

A;Molecule type: protein

A;Residues: 1-11 <BIN>

Query Match                    18.2%;    Score 2;    DB 2;    Length 11;  
Best Local Similarity    100.0%;    Pred. No. 2.8e+04;  
Matches        2;    Conservative        0;    Mismatches        0;    Indels        0;    Gaps        0;

Qy            3 AL 4  
              ||  
Db            5 AL 6

RESULT 33

PT0249

Ig heavy chain CRD3 region (clone 2-109A) - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 30-Sep-1993 #sequence\_revision 30-Sep-1993 #text\_change 16-Aug-1996

C;Accession: PT0249

R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.  
J. Exp. Med. 173, 395-407, 1991

A;Title: Preferential utilization of specific immunoglobulin heavy chain  
diversity and joining segments in adult human peripheral blood B lymphocytes.

A;Reference number: PT0222; MUID:91108337; PMID:1899102

A;Accession: PT0249

A;Molecule type: DNA

A;Residues: 1-11 <YAM>

A;Experimental source: B lymphocyte

C;Keywords: heterotetramer; immunoglobulin

Query Match                    18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity    100.0%; Pred. No. 2.8e+04;  
Matches        2; Conservative    0; Mismatches        0; Indels        0; Gaps        0;

Qy            6 WG 7  
              ||  
Db            4 WG 5

RESULT 34

S51732

T-cell receptor alpha chain joining region - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 07-May-1995 #sequence\_revision 01-Sep-1995 #text\_change 05-Nov-1999

C;Accession: S51732

R;Durinovic-Bello, I.; Steinle, A.; Ziegler, A.G.; Schendel, D.J.  
submitted to the EMBL Data Library, November 1993

A;Reference number: S51732

A;Accession: S51732

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-11 <DUR>

A;Cross-references: EMBL:Z28343; NID:g607116; PIDN:CAA82197.1; PID:g607117

C;Keywords: T-cell receptor

Query Match                    18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity    100.0%; Pred. No. 2.8e+04;  
Matches        2; Conservative    0; Mismatches        0; Indels        0; Gaps        0;

Qy            3 AL 4  
              ||  
Db            2 AL 3

RESULT 35



A33571  
 follistatin - bovine (fragment)  
 C;Species: Bos primigenius taurus (cattle)  
 C;Date: 09-Mar-1990 #sequence\_revision 09-Mar-1990 #text\_change 30-Sep-1993  
 C;Accession: A33571  
 R;Gospodarowicz, D.; Lau, K.  
 Biochem. Biophys. Res. Commun. 165, 292-298, 1989  
 A;Title: Pituitary follicular cells secrete both vascular endothelial growth factor and follistatin.  
 A;Reference number: A33571; MUID:90073725; PMID:2590228  
 A;Accession: A33571  
 A;Status: preliminary  
 A;Molecule type: protein  
 A;Residues: 1-11 <GOS>

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AK 9  
 ||  
 Db 8 AK 9 ~

#### RESULT 36

S78765  
 ribosomal protein MRP-S24, mitochondrial - bovine (fragment)  
 C;Species: Bos primigenius taurus (cattle)  
 C;Date: 20-Sep-1999 #sequence\_revision 20-Sep-1999 #text\_change 20-Sep-1999  
 C;Accession: S78765  
 R;Graack, H.R.  
 submitted to the Protein Sequence Database, July 1999  
 A;Reference number: S78760  
 A;Accession: S78765  
 A;Molecule type: protein  
 A;Residues: 1-11 <GRA>  
 C;Keywords: mitochondrion  
 F;1-11/Product: ribosomal protein MRP-S24 (fragment) #status experimental <MAT>

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
 ||  
 Db 6 PK 7

#### RESULT 37

A14454  
 6-phosphofructokinase (EC 2.7.1.11) - sheep (fragment)  
 C;Species: Ovis orientalis aries, Ovis ammon aries (domestic sheep)  
 C;Date: 05-Jun-1987 #sequence\_revision 05-Jun-1987 #text\_change 28-Apr-1993  
 C;Accession: A14454  
 R;Fordyce, A.M.; Midwinter, G.G.; Moore, C.H.  
 Biochem. Soc. Trans. 7, 721-723, 1979  
 A;Title: The N-terminal amino acid sequence of sheep heart phosphofructokinase.

A;Reference number: A14454; MUID:80004524; PMID:157899  
A;Accession: A14454  
A;Molecule type: protein  
A;Residues: 1-11 <FOR>  
C;Keywords: glycolysis; phosphotransferase

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AK 9  
||  
Db 8 AK 9

#### RESULT 38

PN0664

dystrophin-associated glycoprotein A3a-III - rabbit (fragment)

C;Species: Oryctolagus cuniculus (domestic rabbit)

C;Date: 19-May-1994 #sequence\_revision 19-May-1994 #text\_change 07-May-1999

C;Accession: PN0664

R;Yoshida, M.; Mizuno, Y.; Nonaka, I.; Ozawa, E.

J. Biochem. 114, 634-639, 1993

A;Title: A dystrophin-associated glycoprotein, A3a (one of 43DAG doublets), is retained in Duchenne muscular dystrophy muscle.

A;Reference number: PN0662; MUID:94156881; PMID:8113213

A;Accession: PN0664

A;Molecule type: protein

A;Residues: 1-11 <YOS>

C;Comment: This protein is retained in Duchenne type muscular dystrophy muscle.

C;Keywords: glycoprotein; skeletal muscle

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LN 5  
||  
Db 4 LN 5

#### RESULT 39

PH1632

Ig H chain V-D-J region (clone B-less 209) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 02-Jun-1994 #sequence\_revision 02-Jun-1994 #text\_change 17-Mar-1999

C;Accession: PH1632

R;Levinson, D.A.; Campos-Torres, J.; Leder, P.

J. Exp. Med. 178, 317-329, 1993

A;Title: Molecular characterization of transgene-induced immunodeficiency in B-less mice using a novel quantitative limiting dilution polymerase chain reaction method.

A;Reference number: PH1580; MUID:93301609; PMID:8315387

A;Accession: PH1632

A;Molecule type: DNA

A;Residues: 1-11 <LEV>

A;Experimental source: bone marrow pre-B lymphocyte

C;Keywords: immunoglobulin

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
||  
Db 2 AR 3

RESULT 40

PH1600

Ig H chain V-D-J region (wild-type clone 310) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 02-Jun-1994 #sequence\_revision 02-Jun-1994 #text\_change 17-Mar-1999

C;Accession: PH1600

R;Levinson, D.A.; Campos-Torres, J.; Leder, P.

J. Exp. Med. 178, 317-329, 1993

A;Title: Molecular characterization of transgene-induced immunodeficiency in B-less mice using a novel quantitative limiting dilution polymerase chain reaction method.

A;Reference number: PH1580; MUID:93301609; PMID:8315387

A;Accession: PH1600

A;Molecule type: DNA

A;Residues: 1-11 <LEV>

A;Experimental source: bone marrow pre-B lymphocyte

C;Keywords: immunoglobulin

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
||  
Db 2 AR 3

RESULT 41

PH1583

Ig H chain V-D-J region (wild-type clone 6) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 02-Jun-1994 #sequence\_revision 02-Jun-1994 #text\_change 17-Mar-1999

C;Accession: PH1583

R;Levinson, D.A.; Campos-Torres, J.; Leder, P.

J. Exp. Med. 178, 317-329, 1993

A;Title: Molecular characterization of transgene-induced immunodeficiency in B-less mice using a novel quantitative limiting dilution polymerase chain reaction method.

A;Reference number: PH1580; MUID:93301609; PMID:8315387

A;Accession: PH1583

A;Molecule type: DNA

A;Residues: 1-11 <LEV>

A;Experimental source: bone marrow pre-B lymphocyte

C;Keywords: immunoglobulin

Query Match 18.2%; Score 2; DB 2; Length 11;

Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
||  
Db 2 AR 3

RESULT 42

PH1584

Ig H chain V-D-J region (wild-type clone 8) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 02-Jun-1994 #sequence\_revision 02-Jun-1994 #text\_change 17-Mar-1999

C;Accession: PH1584

R;Levinson, D.A.; Campos-Torres, J.; Leder, P.

J. Exp. Med. 178, 317-329, 1993

A;Title: Molecular characterization of transgene-induced immunodeficiency in B-less mice using a novel quantitative limiting dilution polymerase chain reaction method.

A;Reference number: PH1580; MUID:93301609; PMID:8315387

A;Accession: PH1584

A;Molecule type: DNA

A;Residues: 1-11 <LEV>

A;Experimental source: bone marrow pre-B lymphocyte

C;Keywords: immunoglobulin

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
||  
Db 2 AR 3

RESULT 43

PT0209

T-cell receptor alpha chain V-J region (4-1-L.6) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 31-Dec-1991 #sequence\_revision 31-Dec-1991 #text\_change 30-May-1997

C;Accession: PT0209

R;Nakano, N.; Kikutani, H.; Nishimoto, H.; Kishimoto, T.

J. Exp. Med. 173, 1091-1097, 1991

A;Title: T cell receptor V gene usage of islet beta cell-reactive T cells is not restricted in non-obese diabetic mice.

A;Reference number: PT0209; MUID:91217621; PMID:1902501

A;Accession: PT0209

A;Molecule type: mRNA

A;Residues: 1-11 <NAK>

C;Keywords: T-cell receptor

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
||

Db 2 AL 3

RESULT 44

PT0214

T-cell receptor beta chain V-J region (4-1-L.6) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 31-Dec-1991 #sequence\_revision 31-Dec-1991 #text\_change 30-May-1997

C;Accession: PT0214

R;Nakano, N.; Kikutani, H.; Nishimoto, H.; Kishimoto, T.

J. Exp. Med. 173, 1091-1097, 1991

A;Title: T cell receptor V gene usage of islet beta cell-reactive T cells is not restricted in non-obese diabetic mice.

A;Reference number: PT0209; MUID:91217621; PMID:1902501

A;Accession: PT0214

A;Molecule type: mRNA

A;Residues: 1-11 <NAK>

C;Keywords: T-cell receptor

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
||  
Db 2 GA 3

RESULT 45

PT0218

T-cell receptor beta chain V-J region (7-10-D.3) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 31-Dec-1991 #sequence\_revision 31-Dec-1991 #text\_change 30-May-1997

C;Accession: PT0218

R;Nakano, N.; Kikutani, H.; Nishimoto, H.; Kishimoto, T.

J. Exp. Med. 173, 1091-1097, 1991

A;Title: T cell receptor V gene usage of islet beta cell-reactive T cells is not restricted in non-obese diabetic mice.

A;Reference number: PT0209; MUID:91217621; PMID:1902501

A;Accession: PT0218

A;Molecule type: mRNA

A;Residues: 1-11 <NAK>

C;Keywords: T-cell receptor

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
||  
Db 2 GA 3

RESULT 46

PD0441

translation elongation factor TU-like protein P43, mitochondrial - mouse (fragment)

C;Species: Mus musculus (house mouse)  
C;Date: 21-Aug-1998 #sequence\_revision 21-Aug-1998 #text\_change 21-Aug-1998  
C;Accession: PD0441  
R;Kawakami, T.; Uchida, T.; Sakai, T.; Kamo, M.; Morimasa, T.; Tsugita, A.  
submitted to JIPID, August 1998  
A;Description: Proteome analysis of mouse brain.  
A;Reference number: PD0441  
A;Accession: PD0441  
A;Molecule type: protein  
A;Residues: 1-11 <KAW>  
A;Experimental source: striatum  
C;Keywords: mitochondrion

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AK 9  
||  
Db 4 AK 5

#### RESULT 47

S65377

cytochrome-c oxidase (EC 1.9.3.1) chain VIa-H, cardiac - rat (fragment)

C;Species: Rattus norvegicus (Norway rat)

C;Date: 28-Oct-1996 #sequence\_revision 13-Mar-1997 #text\_change 16-Jul-1999

C;Accession: S65377

R;Schaeffer, H.; Noack, H.; Halangk, W.; Brandt, U.; von Jagow, G.

Eur. J. Biochem. 230, 235-241, 1995

A;Title: Cytochrome-c oxidase in developing rat heart. Enzymic properties and amino-terminal sequences suggest identity of the fetal heart and the adult liver isoform.

A;Reference number: S65372; MUID:95324529; PMID:7601105

A;Accession: S65377

A;Status: preliminary

A;Molecule type: protein

A;Residues: 1-11 <SCH>

C;Keywords: cardiac muscle; heart; oxidoreductase

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AK 9  
||  
Db 3 AK 4

#### RESULT 48

S09349

microtubule-associated protein MAP2 - rat (fragment)

C;Species: Rattus norvegicus (Norway rat)

C;Date: 19-Mar-1997 #sequence\_revision 29-Aug-1997 #text\_change 21-Nov-1998

C;Accession: S09349

R;Papandriopoulou, A.; Doll, T.; Tucker, R.P.; Garner, C.C.; Matus, A.

Nature 340, 650-652, 1989

A;Title: Embryonic MAP2 lacks the cross-linking sidearm sequences and dendritic targeting signal of adult MAP2.

A;Reference number: S09349; MUID:89365159; PMID:2770869

A;Accession: S09349

A;Status: not compared with conceptual translation

A;Molecule type: mRNA

A;Residues: 1-11 <PAP>

C;Genetics:

A;Gene: MAP2

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4

||

Db 1 AL 2

#### RESULT 49

PH0939

T-cell receptor beta chain V-D-J region (clone 10) - rat (fragment)

C;Species: Rattus norvegicus (Norway rat)

C;Date: 09-Oct-1992 #sequence\_revision 09-Oct-1992 #text\_change 30-May-1997

C;Accession: PH0939

R;Gold, D.P.; Offner, H.; Sun, D.; Wiley, S.; Vandenbark, A.A.; Wilson, D.B.

J. Exp. Med. 174, 1467-1476, 1991

A;Title: Analysis of T cell receptor beta chains in Lewis rats with experimental allergic encephalomyelitis: conserved complementarity determining region 3.

A;Reference number: PH0891; MUID:92078857; PMID:1836012

A;Accession: PH0939

A;Molecule type: mRNA

A;Residues: 1-11 <GOL>

A;Experimental source: complete Freund's adjuvant-immunized lymph node

C;Keywords: T-cell receptor

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10

||

Db 5 KP 6

#### RESULT 50

PH0903

T-cell receptor beta chain V-D-J region (hybridoma S1C2A6) - rat (fragment)

C;Species: Rattus norvegicus (Norway rat)

C;Date: 09-Oct-1992 #sequence\_revision 09-Oct-1992 #text\_change 30-May-1997

C;Accession: PH0903

R;Gold, D.P.; Offner, H.; Sun, D.; Wiley, S.; Vandenbark, A.A.; Wilson, D.B.

J. Exp. Med. 174, 1467-1476, 1991

A;Title: Analysis of T cell receptor beta chains in Lewis rats with experimental allergic encephalomyelitis: conserved complementarity determining region 3.

A;Reference number: PH0891; MUID:92078857; PMID:1836012

A;Accession: PH0903

A;Molecule type: mRNA  
A;Residues: 1-11 <GOL>  
A;Experimental source: myelin basic protein-immunized T-cell  
C;Keywords: T-cell receptor

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
||  
Db 6 GA 7

RESULT 51

S19015

hypothetical protein 11 ruvC-yebC intergenic region - Escherichia coli

C;Species: Escherichia coli

C;Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 15-Oct-1999

C;Accession: S19015

R;Sharples, G.J.; Lloyd, R.G.

J. Bacteriol. 173, 7711-7715, 1991

A;Title: Resolution of Holliday junctions in Escherichia coli: identification of the ruvC gene product as a 19-kilodalton protein.

A;Reference number: S19013; MUID:92041688; PMID:1657895

A;Accession: S19015

A;Molecule type: DNA

A;Residues: 1-11 <SHA>

A;Cross-references: EMBL:X59551; NID:g42172; PIDN:CAA42127.1; PID:g42174

C;Comment: This is the hypothetical translation of a sequence that was not reported as a coding sequence in the complete genome.

Query Match 18.2%; Score 2; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AK 9  
||  
Db 4 AK 5

RESULT 52

I54081

retinoic acid receptor alpha, exon 3 (mistranslated) - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 04-Jun-1999 #sequence\_revision 04-Jun-1999 #text\_change 28-Jun-1999

C;Accession: I54081

R;Dong, S.; Geng, J.P.; Tong, J.H.; Wu, Y.; Cai, J.R.; Sun, G.L.; Chen, S.R.; Wang, Z.Y.; Larsen, C.J.; Berger, R.

Genes Chromosomes Cancer 6, 133-139, 1993

A;Title: Breakpoint clusters of the PML gene in acute promyelocytic leukemia: primary structure of the reciprocal products of the PML-RARA gene in a patient with t(15;17).

A;Reference number: I54081; MUID:93222087; PMID:7682097

A;Accession: I54081

A;Status: translated from GB/EMBL/DDBJ

A;Molecule type: DNA



A;Residues: 1-11 <DON>  
A;Cross-references: GB:S57794; NID:g299073; PIDN:AAD13888.1; PID:g4261588  
A;Note: the translation is from an incorrect reading frame  
C;Genetics:  
A;Gene: GDB:RARA  
A;Cross-references: GDB:120337; OMIM:180240  
A;Map position: 17q12-17q12

Query Match 18.2%; Score 2; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.8e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RA 3  
||  
Db 5 RA 6

RESULT 53

XAVIBH

bradykinin-potentiating peptide - halys viper

N;Alternate names: BPP

C;Species: Agkistrodon halys (halys viper)

C;Date: 30-Sep-1988 #sequence\_revision 30-Sep-1988 #text\_change 05-Aug-1994

C;Accession: JC0002

R;Chi, C.W.; Wang, S.Z.; Xu, L.G.; Wang, M.Y.; Lo, S.S.; Huang, W.D.

Peptides 6, 339-342, 1985

A;Title: Structure-function studies on the bradykinin potentiating peptide from Chinese snake venom (Agkistrodon halys Pallas).

A;Reference number: JC0002; MUID:86177022; PMID:3008123

A;Accession: JC0002

A;Molecule type: protein

A;Residues: 1-11 <CHI>

C;Comment: Because this peptide both inhibits the activity of the angiotensin-converting enzyme and enhances the action of bradykinin, it is an antihypertensive agent.

C;Superfamily: bradykinin-potentiating peptide

C;Keywords: angiotensin-converting enzyme inhibitor; antihypertensive; bradykinin; pyroglutamic acid; venom

F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 G 7  
|  
Db 2 G 2

RESULT 54

ECLQ2M

tachykinin II - migratory locust

C;Species: Locusta migratoria (migratory locust)

C;Date: 31-Dec-1991 #sequence\_revision 31-Dec-1991 #text\_change 08-Dec-1995

C;Accession: S08266

R;Schoofs, L.; Holman, G.M.; Hayes, T.K.; Nachman, R.J.; de Loof, A.

FEBS Lett. 261, 397-401, 1990

A;Title: Locustatachykinin I and II, two novel insect neuropeptides with homology to peptides of the vertebrate tachykinin family.

A;Reference number: S08265; MUID:90184489; PMID:2311766

A;Accession: S08266

A;Molecule type: protein

A;Residues: 1-11 <SCH>

C;Superfamily: tachykinin

C;Keywords: amidated carboxyl end; neuropeptide; tachykinin

F;11/Modified site: amidated carboxyl end (Arg) #status experimental

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 A 1  
|  
Db 1 A 1

#### RESULT 55

EOOCC

eledoisin - curled octopus

C;Species: Eledone cirrosa, Ozaena cirrosa (curled octopus)

C;Date: 31-Dec-1991 #sequence\_revision 31-Dec-1991 #text\_change 20-Mar-1998

C;Accession: B01561; A01561

R;Anastasi, A.; Erspamer, V.

Arch. Biochem. Biophys. 101, 56-65, 1963

A;Title: The isolation and amino acid sequence of eledoisin, the active endecapeptide of the posterior salivary glands of Eledone.

A;Reference number: A01561

A;Accession: B01561

A;Molecule type: protein

A;Residues: 1-11 <ANA>

C;Superfamily: substance P precursor

C;Keywords: amidated carboxyl end; hormone; pyroglutamic acid; salivary gland; secretagogue; vasodilator; venom

F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

F;11/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 P 10  
|  
Db 2 P 2

#### RESULT 56

EOOC

eledoisin - musky octopus

C;Species: Eledone moschata, Ozaena moschata (musky octopus)

C;Date: 13-Jul-1981 #sequence\_revision 13-Jul-1981 #text\_change 20-Mar-1998

C;Accession: A01561

R;Anastasi, A.; Erspamer, V.

Arch. Biochem. Biophys. 101, 56-65, 1963

A;Title: The isolation and amino acid sequence of eledoisin, the active  
endecapeptide of the posterior salivary glands of Eledone.  
A;Reference number: A01561  
A;Accession: A01561  
A;Molecule type: protein  
A;Residues: 1-11 <ANA>  
C;Superfamily: substance P precursor  
C;Keywords: amidated carboxyl end; hormone; pyroglutamic acid; salivary gland;  
secretagogue; vasodilator; venom  
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental  
F;11/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 P 10  
|  
Db 2 P 2

#### RESULT 57

GMROL

leucosulfakinin - Madeira cockroach

N;Alternate names: LSK

C;Species: Leucophaea maderae (Madeira cockroach)

C;Date: 17-Mar-1987 #sequence\_revision 17-Mar-1987 #text\_change 13-Sep-1996

C;Accession: A01622

R;Nachman, R.J.; Holman, G.M.; Haddon, W.F.; Ling, N.

Science 234, 71-73, 1986

A;Title: Leucosulfakinin, a sulfated insect neuropeptide with homology to  
gastrin and cholecystokinin.

A;Reference number: A01622; MUID:86315858; PMID:3749893

A;Accession: A01622

A;Molecule type: protein

A;Residues: 1-11 <NAC>

C;Superfamily: gastrin

C;Keywords: amidated carboxyl end; hormone; sulfoprotein

F;6/Binding site: sulfate (Tyr) (covalent) #status experimental

F;11/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
|  
Db 10 R 10

#### RESULT 58

G42762

proteasome endopeptidase complex (EC 3.4.25.1) subunit 13 - bovine (fragment)

C;Species: Bos primigenius taurus (cattle)

C;Date: 04-Mar-1993 #sequence\_revision 18-Nov-1994 #text\_change 17-Feb-2003

C;Accession: G42762

R;Dick, L.R.; Moomaw, C.R.; Pramanik, B.C.; DeMartino, G.N.; Slaughter, C.A.

Biochemistry 31, 7347-7355, 1992

A;Title: Identification and localization of a cysteinyl residue critical for the trypsin-like catalytic activity of the proteasome.

A;Reference number: A42762; MUID:92378961; PMID:1510924

A;Accession: G42762

A;Status: preliminary

A;Molecule type: protein

A;Residues: 1-11 <DIC>

A;Note: sequence extracted from NCBI backbone (NCBIP:112176)

C;Superfamily: multicatalytic endopeptidase complex chain C9

C;Keywords: hydrolase

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 K 9

|

Db 8 K 8

#### RESULT 59

S68392

H+-transporting two-sector ATPase (EC 3.6.3.14) chain I - Chlamydomonas reinhardtii chloroplast (fragment)

N;Alternate names: ATP synthase chain I

C;Species: chloroplast Chlamydomonas reinhardtii

C;Date: 04-Dec-1997 #sequence\_revision 12-Dec-1997 #text\_change 03-Jun-2002

C;Accession: S68392

R;Fiedler, H.R.; Schmid, R.; Leu, S.; Shavit, N.; Strotmann, H.

FEBS Lett. 377, 163-166, 1995

A;Title: Isolation of CF(0)CF(1) from Chlamydomonas reinhardtii cw15 and the N-terminal amino acid sequences of the CF(0)CF(1) subunits.

A;Reference number: S68388; MUID:96128220; PMID:8543042

A;Accession: S68392

A;Molecule type: protein

A;Residues: 1-11 <FIE>

A;Experimental source: strain CW15

C;Genetics:

A;Genome: chloroplast

C;Superfamily: H+-transporting ATP synthase protein 6

C;Keywords: ATP biosynthesis; chloroplast; hydrolase; membrane-associated complex; thylakoid

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 G 7

|

Db 5 G 5

#### RESULT 60

A33917

dihydroorotase (EC 3.5.2.3) - Chinese hamster (fragment)

C;Species: Cricetulus griseus (Chinese hamster)

C;Date: 09-Mar-1990 #sequence\_revision 09-Mar-1990 #text\_change 07-Nov-1997  
 C;Accession: A33917  
 R;Simmer, J.P.; Kelly, R.E.; Scully, J.L.; Grayson, D.R.; Rinker Jr., A.G.;  
 Bergh, S.T.; Evans, D.R.  
 Proc. Natl. Acad. Sci. U.S.A. 86, 4382-4386, 1989  
 A;Title: Mammalian aspartate transcarbamylase (ATCase): sequence of the ATCase  
 domain and interdomain linker in the CAD multifunctional polypeptide and  
 properties of the isolated domain.  
 A;Reference number: A33917; MUID:89282776; PMID:2543974  
 A;Accession: A33917  
 A;Status: preliminary  
 A;Molecule type: mRNA  
 A;Residues: 1-11 <SIM>  
 A;Cross-references: GB:M23652  
 C;Superfamily: rudimentary enzyme; aspartate/ornithine carbamoyltransferase  
 homology; Bacillus dihydroorotase homology; biotin carboxylase homology;  
 carbamoyl-phosphate synthase (ammonia) homology; carbamoyl-phosphate synthase  
 (glutamine-hydrolyzing) large chain homology; carbamoyl-phosphate synthase  
 (glutamine-hydrolyzing) small chain homology; trpG homology  
 C;Keywords: hydrolase

Query Match 9.1%; Score 1; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
 |  
 Db 11 R 11

# RESULT 61

JN0023

substance P - chicken

C;Species: Gallus gallus (chicken)

C;Date: 07-Sep-1990 #sequence\_revision 07-Sep-1990 #text\_change 11-Jul-1997

C;Accession: JN0023

R;Conlon, J.M.; Katsoulis, S.; Schmidt, W.E.; Thim, L.

Regul. Pept. 20, 171-180, 1988

A;Title: [Arg3]substance P and neurokinin A from chicken small intestine.

A;Reference number: JN0023; MUID:88204263; PMID:2452461

A;Accession: JN0023

A;Molecule type: protein

A;Residues: 1-11 <CON>

C;Superfamily: substance P precursor

C;Keywords: amidated carboxyl end; tachykinin

F;11/Modified site: amidated carboxyl end (Met) #status predicted

Query Match 9.1%; Score 1; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
 |  
 Db 1 R 1

# RESULT 62

S32575

ribosomal protein S2, plastid - squawroot plastid (fragment)

C;Species: plastid *Conopholis americana* (squawroot)

C;Date: 19-Mar-1997 #sequence\_revision 25-Apr-1997 #text\_change 13-Aug-1999

C;Accession: S32575

R;Taylor, G.W.; Wolfe, K.H.; Morden, C.W.; dePamphilis, C.W.; Palmer, J.D.

Curr. Genet. 20, 515-518, 1991

A;Title: Lack of a functional plastid tRNA(Cys) gene is associated with loss of photosynthesis in a lineage of parasitic plants.

A;Reference number: S32575; MUID:92145776; PMID:1723664

A;Accession: S32575

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-11 <TAY>

A;Cross-references: EMBL:X64567; NID:g11275; PIDN:CAA45868.1; PID:g11276

C;Genetics:

A;Gene: rps2

A;Genome: plastid

C;Superfamily: *Escherichia coli* ribosomal protein S2

C;Keywords: plastid; protein biosynthesis; ribosome

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
|  
Db 3 R 3

#### RESULT 63

A40693

transgelin - sheep (fragment)

C;Species: *Ovis orientalis aries*, *Ovis ammon aries* (domestic sheep)

C;Date: 03-May-1994 #sequence\_revision 03-May-1994 #text\_change 31-Oct-1997

C;Accession: A40693

R;Shapland, C.; Hsuan, J.J.; Totty, N.F.; Lawson, D.

J. Cell Biol. 121, 1065-1073, 1993

A;Title: Purification and properties of transgelin: a transformation and shape change sensitive actin-gelling protein.

A;Reference number: A40693; MUID:93273790; PMID:8501116

A;Accession: A40693

A;Molecule type: protein

A;Residues: 1-11 <SHA>

A;Experimental source: aorta

C;Comment: This protein gels actin and is down regulated by transformation or loss of cell adherence in culture.

C;Superfamily: smooth muscle protein SM22; calponin repeat homology; smooth muscle protein SM22 homology

C;Keywords: actin binding; cytoskeleton

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
|

## RESULT 64

PQ0682

photosystem I 17.5K D2 chain - common tobacco (fragment)

C;Species: *Nicotiana tabacum* (common tobacco)

C;Date: 19-May-1994 #sequence\_revision 19-May-1994 #text\_change 17-Mar-1999

C;Accession: PQ0682

R;Obokata, J.; Mikami, K.; Hayashida, N.; Nakamura, M.; Sugiura, M.

Plant Physiol. 102, 1259-1267, 1993

A;Title: Molecular heterogeneity of photosystem I. psaD, psaE, psaF, psaH and psaL are all present in isoforms in *Nicotiana* spp.

A;Reference number: PQ0667; MUID:94105345; PMID:8278548

A;Accession: PQ0682

A;Molecule type: protein

A;Residues: 1-11 &lt;OBO&gt;

C;Superfamily: photosystem I chain II

C;Keywords: chloroplast; photosynthesis; photosystem I; thylakoid

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 A 1

|

Db 1 A 1

## RESULT 65

S00616

parasporal crystal protein, wax moth-specific - *Bacillus thuringiensis* (strain galleriae 11-67) (fragment)

N;Alternate names: delta-endotoxin; parasporal crystal protein positive chain

C;Species: *Bacillus thuringiensis*

C;Date: 31-Dec-1988 #sequence\_revision 31-Dec-1988 #text\_change 13-Sep-1996

C;Accession: S00616

R;Chestukhina, G.G.; Kostina, L.I.; Zalunin, I.A.; Khodova, O.M.; Stepanov, V.M.

FEBS Lett. 232, 249-251, 1988

A;Title: *Bacillus thuringiensis* ssp. galleriae simultaneously produces two delta-endotoxins differing strongly in primary structure and entomocidal activity.

A;Reference number: S00615

A;Accession: S00616

A;Molecule type: protein

A;Residues: 1-11 &lt;CHE&gt;

C;Comment: This toxin is effective against the larvae of *Galleria melonella* (greater wax moth) but not those of *Lymantria dispar* (gypsy moth).

C;Superfamily: parasporal crystal protein

C;Keywords: delta-endotoxin

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 P 10

|

## RESULT 66

C53652

rhlR protein - *Pseudomonas aeruginosa* (fragment)C;Species: *Pseudomonas aeruginosa*

C;Date: 21-Jul-1995 #sequence\_revision 28-Jul-1995 #text\_change 21-Aug-1998

C;Accession: C53652

R;Ochsner, U.A.; Fiechter, A.; Reiser, J.

J. Biol. Chem. 269, 19787-19795, 1994

A;Title: Isolation, characterization, and expression in *Escherichia coli* of the *Pseudomonas aeruginosa* rhlAB genes encoding a rhamnosyltransferase involved in rhamnolipid biosurfactant synthesis.

A;Reference number: A53652; MUID:94327521; PMID:8051059

A;Accession: C53652

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-11 &lt;OCH&gt;

A;Cross-references: GB:L28170

C;Superfamily: sdiA regulatory protein

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2

|

Db 2 R 2

## RESULT 67

S09074

cytochrome P450-4b - rat (fragment)

N;Alternate names: cytochrome P450K-5

N;Contains: oxidoreductase (EC 1.-.-.-)

C;Species: *Rattus norvegicus* (Norway rat)

C;Date: 23-Apr-1993 #sequence\_revision 23-Apr-1993 #text\_change 05-Mar-1999

C;Accession: S09074

R;Imaoka, S.; Terano, Y.; Funae, Y.

Arch. Biochem. Biophys. 278, 168-178, 1990

A;Title: Changes in the amount of cytochrome P450s in rat hepatic microsomes with starvation.

A;Reference number: S09072; MUID:90210577; PMID:2321956

A;Accession: S09074

A;Molecule type: protein

A;Residues: 1-11 &lt;IMA&gt;

C;Superfamily: unassigned cytochrome P450; cytochrome P450 homology

C;Keywords: heme; microsome; monooxygenase; oxidoreductase; transmembrane protein

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 L 4

|



Db 8 L 8

RESULT 68

A57458

gene Gax protein - mouse (fragment)

C;Species: Mus sp. (mouse)

C;Date: 02-Jul-1996 #sequence\_revision 02-Jul-1996 #text\_change 15-Oct-1999

C;Accession: A57458

R;Andres, V.; Fisher, S.; Wearsch, P.; Walsh, K.

Mol. Cell. Biol. 15, 4272-4281, 1995

A;Title: Regulation of Gax homeobox gene transcription by a combination of positive factors including myocyte-specific enhancer factor 2.

A;Reference number: A57458; MUID:95349593; PMID:7623821

A;Accession: A57458

A;Status: preliminary; translated from GB/EMBL/DDBJ

A;Molecule type: DNA

A;Residues: 1-11 <RES>

A;Cross-references: GB:S79168; NID:g1050991

C;Genetics:

A;Gene: Gax

C;Superfamily: unassigned homeobox proteins; homeobox homology

C;Keywords: DNA binding; homeobox; nucleus; transcription regulation

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
|  
Db 10 R 10

RESULT 69

A26930

ermG leader peptide 1 - Bacillus sphaericus

C;Species: Bacillus sphaericus

C;Date: 08-Mar-1989 #sequence\_revision 08-Mar-1989 #text\_change 24-Sep-1999

C;Accession: A26930

R;Monod, M.; Mohan, S.; Dubnau, D.

J. Bacteriol. 169, 340-350, 1987

A;Title: Cloning and analysis of ermG, a new macrolide-lincosamide-streptogramin B resistance element from Bacillus sphaericus.

A;Reference number: A91840; MUID:87083389; PMID:3025178

A;Accession: A26930

A;Molecule type: DNA

A;Residues: 1-11 <MON>

A;Cross-references: GB:M15332; NID:g142881; PIDN:AAA22417.1; PID:g142882

C;Superfamily: unassigned leader peptides

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 N 5  
|  
Db 2 N 2

RESULT 70

D60409

kassinin-like peptide K-III - frog (*Pseudophryne guentheri*)

C;Species: *Pseudophryne guentheri*

C;Date: 30-Jan-1993 #sequence\_revision 30-Jan-1993 #text\_change 02-Sep-2000

C;Accession: D60409

R;Simmaco, M.; Severini, C.; De Biase, D.; Barra, D.; Bossa, F.; Roberts, J.D.; Melchiorri, P.; Erspamer, V.

Peptides 11, 299-304, 1990

A;Title: Six novel tachykinin- and bombesin-related peptides from the skin of the Australian frog *Pseudophryne guentheri*.

A;Reference number: A60409; MUID:90287814; PMID:2356157

A;Accession: D60409

A;Molecule type: protein

A;Residues: 1-11 <SIM>

C;Superfamily: unassigned animal peptides

C;Keywords: amidated carboxyl end; pyroglutamic acid

F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

F;11/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 N 5

|

Db 5 N 5

RESULT 71

F60409

substance P-like peptide II - frog (*Pseudophryne guentheri*)

C;Species: *Pseudophryne guentheri*

C;Date: 30-Jan-1993 #sequence\_revision 30-Jan-1993 #text\_change 02-Sep-2000

C;Accession: F60409

R;Simmaco, M.; Severini, C.; De Biase, D.; Barra, D.; Bossa, F.; Roberts, J.D.; Melchiorri, P.; Erspamer, V.

Peptides 11, 299-304, 1990

A;Title: Six novel tachykinin- and bombesin-related peptides from the skin of the Australian frog *Pseudophryne guentheri*.

A;Reference number: A60409; MUID:90287814; PMID:2356157

A;Accession: F60409

A;Molecule type: protein

A;Residues: 1-11 <SIM>

C;Superfamily: unassigned animal peptides

C;Keywords: amidated carboxyl end; pyroglutamic acid

F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

F;11/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 N 5

|

Db

3 N 3

RESULT 72

E60409

substance P-like peptide I - frog (*Pseudophryne guentheri*)

C;Species: *Pseudophryne guentheri*

C;Date: 30-Jan-1993 #sequence\_revision 30-Jan-1993 #text\_change 02-Sep-2000

C;Accession: E60409

R;Simmaco, M.; Severini, C.; De Biase, D.; Barra, D.; Bossa, F.; Roberts, J.D.; Melchiorri, P.; Erspamer, V.

Peptides 11, 299-304, 1990

A;Title: Six novel tachykinin- and bombesin-related peptides from the skin of the Australian frog *Pseudophryne guentheri*.

A;Reference number: A60409; MUID:90287814; PMID:2356157

A;Accession: E60409

A;Molecule type: protein

A;Residues: 1-11 <SIM>

C;Superfamily: unassigned animal peptides

C;Keywords: amidated carboxyl end; pyroglutamic acid

F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

F;11/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 9.1%; Score 1; DB 2; Length 11;

Best Local Similarity 100.0%; Pred. No. 2e+05;

Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 N 5

|

Db 3 N 3

RESULT 73

YHRT

morphogenetic neuropeptide - rat

C;Species: *Rattus norvegicus* (Norway rat)

C;Date: 20-Jun-2000 #sequence\_revision 20-Jun-2000 #text\_change 20-Jun-2000

C;Accession: A01427

R;Bodenmuller, H.; Schaller, H.C.

Nature 293, 579-580, 1981

A;Title: Conserved amino acid sequence of a neuropeptide, the head activator, from coelenterates to humans.

A;Reference number: A93266; MUID:82035850; PMID:7290191

A;Accession: A01427

A;Molecule type: protein

A;Residues: 1-11 <BOD>

R;Birr, C.; Zachmann, B.; Bodenmuller, H.; Schaller, H.C.

FEBS Lett. 131, 317-321, 1981

A;Title: Synthesis of a new neuropeptide, the head activator from hydra.

A;Reference number: A91296; MUID:82050803; PMID:7297679

A;Contents: annotation; synthesis

A;Note: the synthetic peptide was identical with the natural peptide in chemical structure and biological activity

C;Comment: This peptide was first isolated from nerve cells of hydra and was called head activator by the authors, because it induced head-specific growth and differentiation in this animal. It has been found in mammalian intestine and hypothalamus.

C;Superfamily: unassigned animal peptides  
C;Keywords: growth factor; hormone; hypothalamus; intestine; neuropeptide;  
pyroglutamic acid  
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 L 4  
|  
Db 10 L 10

#### RESULT 74

YHHU

morphogenetic neuropeptide - human

C;Species: Homo sapiens (man)

C;Date: 20-Jun-2000 #sequence\_revision 20-Jun-2000 #text\_change 20-Jun-2000

C;Accession: B01427; A01427

R;Bodenmuller, H.; Schaller, H.C.

Nature 293, 579-580, 1981

A;Title: Conserved amino acid sequence of a neuropeptide, the head activator,  
from coelenterates to humans.

A;Reference number: A93266; MUID:82035850; PMID:7290191

A;Accession: B01427

A;Molecule type: protein

A;Residues: 1-11 <BOD>

R;Birrr, C.; Zachmann, B.; Bodenmuller, H.; Schaller, H.C.

FEBS Lett. 131, 317-321, 1981

A;Title: Synthesis of a new neuropeptide, the head activator from hydra.

A;Reference number: A91296; MUID:82050803; PMID:7297679

A;Contents: annotation; synthesis

A;Note: the synthetic peptide was identical with the natural peptide in chemical  
structure and biological activity

C;Comment: This peptide was first isolated from nerve cells of hydra and was  
called head activator because it induced head-specific growth and  
differentiation in this animal. It has been found in mammalian intestine and  
hypothalamus.

C;Superfamily: unassigned animal peptides

C;Keywords: blocked amino end; growth factor; hormone; hypothalamus; intestine;  
neuropeptide

F;1/Modified site: blocked amino end (Gln) (probably pyrrolidone carboxylic  
acid) #status experimental

Query Match 9.1%; Score 1; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 L 4  
|  
Db 10 L 10

#### RESULT 75

YHBO

morphogenetic neuropeptide - bovine

C;Species: Bos primigenius taurus (cattle)  
 C;Date: 20-Jun-2000 #sequence\_revision 20-Jun-2000 #text\_change 20-Jun-2000  
 C;Accession: C01427; A01427  
 R;Bodenmuller, H.; Schaller, H.C.  
 Nature 293, 579-580, 1981  
 A;Title: Conserved amino acid sequence of a neuropeptide, the head activator,  
 from coelenterates to humans.  
 A;Reference number: A93266; MUID:82035850; PMID:7290191  
 A;Accession: C01427  
 A;Molecule type: protein  
 A;Residues: 1-11 <BOD>  
 R;Birrr, C.; Zachmann, B.; Bodenmuller, H.; Schaller, H.C.  
 FEBS Lett. 131, 317-321, 1981  
 A;Title: Synthesis of a new neuropeptide, the head activator from hydra.  
 A;Reference number: A91296; MUID:82050803; PMID:7297679  
 A;Contents: annotation; synthesis  
 A;Note: the synthetic peptide was identical with the natural peptide in chemical  
 structure and biological activity  
 C;Comment: This peptide was first isolated from nerve cells of hydra and was  
 called head activator because it induced head-specific growth and  
 differentiation in this animal. It has been found in mammalian intestine and  
 hypothalamus.  
 C;Superfamily: unassigned animal peptides  
 C;Keywords: blocked amino end; growth factor; hormone; hypothalamus; intestine;  
 neuropeptide  
 F;1/Modified site: blocked amino end (Gln) (probably pyrrolidone carboxylic  
 acid) #status experimental

Query Match 9.1%; Score 1; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 L 4  
 |  
 Db 10 L 10

Search completed: April 8, 2004, 15:49:25  
 Job time : 9.61538 secs

OM protein - protein search, using sw model

Run on: April 8, 2004, 15:30:07 ; Search time 5.15385 Seconds  
 (without alignments)  
 111.135 Million cell updates/sec

Title: US-09-787-443A-3  
 Perfect score: 11  
 Sequence: 1 ARALNWGAKPK 11

Scoring table: OLIGO  
 Gapop 60.0 , Gapext 60.0

Searched: 141681 seqs, 52070155 residues

Word size : 0

Total number of hits satisfying chosen parameters: 70

Minimum DB seq length: 11  
 Maximum DB seq length: 11

Post-processing: Listing first 100 summaries

Database : SwissProt\_42:\*

Pred. No. is the number of results predicted by chance to have a  
 score greater than or equal to the score of the result being printed,  
 and is derived by analysis of the total score distribution.

# SUMMARIES

Result		%					
No.	Score	Query	Match	Length	DB	ID	Description
1	3	27.3	11	1	RS30_ONCMY	P83328	oncorhynchu
2	2	18.2	11	1	BPPB_AGKHA	P01021	agkistrodon
3	2	18.2	11	1	CA21_LITCI	P82087	litoria cit
4	2	18.2	11	1	CA22_LITCI	P82088	litoria cit
5	2	18.2	11	1	CSI5_BACSU	P81095	bacillus su
6	2	18.2	11	1	ES1_RAT	P56571	rattus norv
7	2	18.2	11	1	FAR6_PENMO	P83321	penaeus mon
8	2	18.2	11	1	LPW_THETH	P05624	thermus the
9	2	18.2	11	1	MHBI_KLEPN	P80580	klebsiella
10	2	18.2	11	1	NUHM_CANFA	P49820	canis famil
11	2	18.2	11	1	OAIF_SARBU	P83518	sarcophaga
12	2	18.2	11	1	PVK1_PERAM	P41837	periplaneta
13	2	18.2	11	1	Q2OA_COMTE	P80464	comamonas t
14	2	18.2	11	1	RRPL_CHAV	P13179	chandipura
15	2	18.2	11	1	TKN2_UPERU	P08616	uperoleia r
16	2	18.2	11	1	TKNA_GADMO	P28498	gadus morhu
17	2	18.2	11	1	TKNA_HORSE	P01290	equus cabal

18	2	18.2	11	1	TKNA_ONCMY	P28499	oncorhynchu
19	2	18.2	11	1	TKNA_RANCA	P22688	rana catesb
20	2	18.2	11	1	TKNA_RANRI	P29207	rana ridibu
21	2	18.2	11	1	TKNA_SCYCA	P41333	scyliorhinu
22	2	18.2	11	1	TKND_RANCA	P22691	rana catesb
23	2	18.2	11	1	ULAG_HUMAN	P31933	homo sapien
24	2	18.2	11	1	UXB2_YEAST	P99013	saccharomyc
25	1	9.1	11	1	ANGT_CRIGE	P09037	crinia geor
26	1	9.1	11	1	ASL1_BACSE	P83146	bacteroides
27	1	9.1	11	1	ASL2_BACSE	P83147	bacteroides
28	1	9.1	11	1	BPP3_BOTIN	P30423	bothrops in
29	1	9.1	11	1	BPP4_BOTIN	P30424	bothrops in
30	1	9.1	11	1	BPP_AGKHP	P04562	agkistrodon
31	1	9.1	11	1	BRK_MEGFL	P12797	megascolia
32	1	9.1	11	1	CA31_LITCI	P82089	litoria cit
33	1	9.1	11	1	CA32_LITCI	P82090	litoria cit
34	1	9.1	11	1	CA41_LITCI	P82091	litoria cit
35	1	9.1	11	1	CA42_LITCI	P82092	litoria cit
36	1	9.1	11	1	CEP1_ACHFU	P22790	achatina fu
37	1	9.1	11	1	CORZ_PERAM	P11496	periplaneta
38	1	9.1	11	1	COXA_CANFA	P99501	canis famil
39	1	9.1	11	1	CX5A_CONAL	P58848	conus aulic
40	1	9.1	11	1	CX5B_CONAL	P58849	conus aulic
41	1	9.1	11	1	CXL1_CONMR	P58807	conus marmo
42	1	9.1	11	1	EFG_CLOPA	P81350	clostridium
43	1	9.1	11	1	FAR9_CALVO	P41864	calliphora
44	1	9.1	11	1	HS70_PINPS	P81672	pinus pinas
45	1	9.1	11	1	LADD_ONCMY	P81018	oncorhynchu
46	1	9.1	11	1	LSK1_LEUMA	P04428	leucophaea
47	1	9.1	11	1	LSKP_PERAM	P36885	periplaneta
48	1	9.1	11	1	MLG_THETS	P41989	theromyzon
49	1	9.1	11	1	MORN_HUMAN	P01163	homo sapien
50	1	9.1	11	1	NXSN_PSETE	P59072	pseudonaja
51	1	9.1	11	1	PKC1_CARMO	P82684	carausius m
52	1	9.1	11	1	PQQC_PSEFL	P55173	pseudomonas
53	1	9.1	11	1	RANC_RANPI	P08951	rana pipien
54	1	9.1	11	1	RE41_LITRU	P82074	litoria rub
55	1	9.1	11	1	RR2_CONAM	P42341	conopholis
56	1	9.1	11	1	T2P1_PROVU	P31031	proteus vul
57	1	9.1	11	1	TIN1_HOPTI	P82651	hoplobatrach
58	1	9.1	11	1	TIN4_HOPTI	P82654	hoplobatrach
59	1	9.1	11	1	TKC2_CALVO	P41518	calliphora
60	1	9.1	11	1	TKN1_PSEGU	P42986	pseudophryn
61	1	9.1	11	1	TKN1_UPEIN	P82026	uperoleia i
62	1	9.1	11	1	TKN1_UPERU	P08612	uperoleia r
63	1	9.1	11	1	TKN2_PSEGU	P42987	pseudophryn
64	1	9.1	11	1	TKN3_PSEGU	P42988	pseudophryn
65	1	9.1	11	1	TKN4_PSEGU	P42989	pseudophryn
66	1	9.1	11	1	TKN5_PSEGU	P42990	pseudophryn
67	1	9.1	11	1	TKNA_CHICK	P19850	gallus gall
68	1	9.1	11	1	TKN_ELEMO	P01293	eledone mos
69	1	9.1	11	1	TKN_PHYFU	P08615	physalaemus
70	1	9.1	11	1	UF05_MOUSE	P38643	mus musculu

# ALIGNMENTS

# RESULT 1

RS30\_ONCMY

ID RS30\_ONCMY STANDARD; PRT; 11 AA.  
AC P83328;  
DT 28-FEB-2003 (Rel. 41, Created)  
DT 28-FEB-2003 (Rel. 41, Last sequence update)  
DT 10-OCT-2003 (Rel. 42, Last annotation update)  
DE 40S ribosomal protein S30 (Fragment).  
GN FAU.  
OS Oncorhynchus mykiss (Rainbow trout) (Salmo gairdneri).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;  
OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.  
OX NCBI\_TaxID=8022;  
RN [1]  
RP SEQUENCE, FUNCTION, AND MASS SPECTROMETRY.  
RC TISSUE=Skin mucus;  
RX MEDLINE=22142142; PubMed=12147245;  
RA Fernandes J.M.O., Smith V.J.;  
RT "A novel antimicrobial function for a ribosomal peptide from rainbow  
RT trout skin."  
RL Biochem. Biophys. Res. Commun. 296:167-171(2002).  
CC -!- FUNCTION: Has antibacterial activity against Gram-positive  
CC bacteria.  
CC -!- MASS SPECTROMETRY: MW=6676.6; METHOD=MALDI.  
CC -!- SIMILARITY: Belongs to the S30E family of ribosomal proteins.  
KW Ribosomal protein; Antibiotic.  
FT NON TER 11 11  
SQ SEQUENCE 11 AA; 1123 MW; 2312AB630DD735B8 CRC64;

Query Match 27.3%; Score 3; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARA 3  
|||  
Db 7 ARA 9

# RESULT 2

BPPB\_AGKHA

ID BPPB\_AGKHA STANDARD; PRT; 11 AA.  
AC P01021;  
DT 21-JUL-1986 (Rel. 01, Created)  
DT 01-FEB-1994 (Rel. 28, Last sequence update)  
DT 28-FEB-2003 (Rel. 41, Last annotation update)  
DE Bradykinin-potentiating peptide B (Angiotensin-converting  
DE enzyme inhibitor).  
OS Agkistrodon halys blomhoffii (Mamushi) (Gloydus blomhoffii).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;  
OC Viperidae; Crotalinae; Gloydus.  
OX NCBI\_TaxID=242054;  
RN [1]  
RP SEQUENCE.  
RC TISSUE=Venom;



RA Kato H., Suzuki T.;  
 RT "Amino acid sequence of bradykinin-potentiating peptide isolated from  
 RT the venom of Agkistrodon halys blomhoffii.";  
 RL Proc. Jpn. Acad., B, Phys. Biol. Sci. 46:176-181(1970).  
 CC -!- FUNCTION: This peptide both inhibits the activity of the  
 CC angiotensin-converting enzyme and enhances the action of  
 CC bradykinin by inhibiting the kinases that inactivate it.  
 CC It acts as an indirect hypotensive agent.  
 DR PIR; A01254; XASNBA.  
 KW Hypotensive agent; Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 SQ SEQUENCE 11 AA; 1199 MW; 295CBF0627741777 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
 ||  
 Db 7 PK 8

### RESULT 3

CA21\_LITCI

ID CA21\_LITCI STANDARD; PRT; 11 AA.  
 AC P82087;  
 DT 16-OCT-2001 (Rel. 40, Created)  
 DT 16-OCT-2001 (Rel. 40, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Caerulein 2.1/2.1Y4.  
 OS Litoria citropa (Australian blue mountains tree frog).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;  
 OC Pelodryadinae; Litoria.  
 OX NCBI\_TaxID=94770;  
 RN [1]  
 RP SEQUENCE, AND MASS SPECTROMETRY.  
 RC TISSUE=Skin secretion;  
 RX MEDLINE=20057701; PubMed=10589099;  
 RA Wabnitz P.A., Bowie J.H., Tyler M.J.;  
 RT "Caerulein-like peptides from the skin glands of the Australian blue  
 RT mountains tree frog Litoria citropa. Part 1. Sequence determination  
 RT using electrospray mass spectrometry."  
 RL Rapid Commun. Mass Spectrom. 13:2498-2502(1999).  
 CC -!- FUNCTION: Hypotensive neuropeptide (Probable).  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin dorsal glands.  
 CC -!- PTM: Isoform 2.1Y4 differs from isoform 2.1 in not being  
 CC sulfated.  
 CC -!- MASS SPECTROMETRY: MW=1372; METHOD=Electrospray.  
 CC -!- SIMILARITY: Belongs to the gastrin/cholecystokinin family.  
 DR InterPro; IPR001651; Gastrin.  
 DR PROSITE; PS00259; GASTRIN; FALSE\_NEG.  
 KW Amphibian defense peptide; Hypotensive agent; Amidation; Sulfation;  
 KW Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 FT MOD\_RES 4 4 SULFATION.

FT MOD\_RES 11 11 AMIDATION.  
SQ SEQUENCE 11 AA; 1312 MW; 10DAB7C4EDD861BB CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
||  
Db 6 GA 7

#### RESULT 4

CA22\_LITCI  
ID CA22\_LITCI STANDARD; PRT; 11 AA.  
AC P82088;  
DT 16-OCT-2001 (Rel. 40, Created)  
DT 16-OCT-2001 (Rel. 40, Last sequence update)  
DT 10-OCT-2003 (Rel. 42, Last annotation update)  
DE Caerulein 2.2/2.2Y4.  
OS Litoria citropa (Australian blue mountains tree frog).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;  
OC Pelodyadinae; Litoria.  
OX NCBI\_TaxID=94770;  
RN [1]  
RP SEQUENCE, AND MASS SPECTROMETRY.  
RC TISSUE=Skin secretion;  
RX MEDLINE=20057701; PubMed=10589099;  
RA Wabnitz P.A., Bowie J.H., Tyler M.J.;  
RT "Caerulein-like peptides from the skin glands of the Australian blue  
RT mountains tree frog Litoria citropa. Part 1. Sequence determination  
RT using electrospray mass spectrometry."  
RL Rapid Commun. Mass Spectrom. 13:2498-2502(1999).  
CC -!- FUNCTION: Hypotensive neuropeptide (Probable).  
CC -!- SUBCELLULAR LOCATION: Secreted.  
CC -!- TISSUE SPECIFICITY: Skin dorsal glands.  
CC -!- PTM: Isoform 2.2Y4 differs from isoform 2.2 in not being  
CC sulfated.  
CC -!- MASS SPECTROMETRY: MW=1388; METHOD=Electrospray.  
CC -!- SIMILARITY: Belongs to the gastrin/cholecystokinin family.  
DR InterPro; IPR001651; Gastrin.  
DR PROSITE; PS00259; GASTRIN; FALSE\_NEG.  
KW Amphibian defense peptide; Hypotensive agent; Amidation; Sulfation;  
KW Pyrrolidone carboxylic acid.  
FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
FT MOD\_RES 4 4 SULFATION.  
FT MOD\_RES 11 11 AMIDATION.  
SQ SEQUENCE 11 AA; 1328 MW; 10DAB894EDD861BB CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
||  
Db 6 GA 7

# RESULT 5

## CSI5\_BACSU

ID CSI5\_BACSU STANDARD; PRT; 11 AA.  
 AC P81095;  
 DT 15-JUL-1998 (Rel. 36, Created)  
 DT 15-JUL-1998 (Rel. 36, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Cold shock protein CSI5 (11 kDa cold shock protein) (Fragment).  
 OS Bacillus subtilis.  
 OC Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.  
 OX NCBI\_TaxID=1423;  
 RN [1]  
 RP SEQUENCE.  
 RC STRAIN=168 / JH642;  
 RA Graumann P.L., Schmid R., Marahiel M.A.;  
 RL Submitted (OCT-1997) to Swiss-Prot.  
 RN [2]  
 RP CHARACTERIZATION.  
 RC STRAIN=168 / JH642;  
 RX MEDLINE=96345629; PubMed=8755892;  
 RA Graumann P., Schroeder K., Schmid R., Marahiel M.A.;  
 RT "Cold shock stress-induced proteins in Bacillus subtilis."  
 RL J. Bacteriol. 178:4611-4619(1996).  
 CC -!- SUBCELLULAR LOCATION: Cytoplasmic.  
 CC -!- INDUCTION: In response to low temperature.  
 CC -!- CAUTION: Could not be found in the genome of B.subtilis 168.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1360 MW; 15F6ECEE6322C330 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LN 5  
 ||  
 Db 10 LN 11

# RESULT 6

## ES1\_RAT

ID ES1\_RAT STANDARD; PRT; 11 AA.  
 AC P56571;  
 DT 15-DEC-1998 (Rel. 37, Created)  
 DT 15-DEC-1998 (Rel. 37, Last sequence update)  
 DT 15-MAR-2004 (Rel. 43, Last annotation update)  
 DE ES1 protein, mitochondrial (Fragment).  
 OS Rattus norvegicus (Rat).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 OX NCBI\_TaxID=10116;  
 RN [1]  
 RP SEQUENCE.  
 RC STRAIN=Wistar; TISSUE=Heart;  
 RA Li X.-P., Pleissner K.-P., Scheler C., Regitz-Zagrosek V., Salikov J.,  
 RA Jungblut P.R.;

RL Submitted (SEP-1998) to Swiss-Prot.  
 CC -!- SUBCELLULAR LOCATION: Mitochondrial (Potential).  
 CC -!- MISCELLANEOUS: By 2D-PAGE, the determined pI of this protein (spot  
 CC P2) is: 8.9, its MW is: 25 kDa.  
 CC -!- SIMILARITY: BELONGS TO THE ES1 FAMILY.  
 KW Mitochondrion.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1142 MW; D862272D32C72DC2 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RA 3  
 ||  
 Db 1 RA 2

#### RESULT 7

##### FAR6\_PENMO

ID FAR6\_PENMO STANDARD; PRT; 11 AA.  
 AC P83321;  
 DT 28-FEB-2003 (Rel. 41, Created)  
 DT 28-FEB-2003 (Rel. 41, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE FMRFamide-like neuropeptide FLP6 (DGRTPALRLRF-amide).  
 OS Penaeus monodon (Penaeid shrimp).  
 OC Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;  
 OC Eumalacostraca; Eucarida; Decapoda; Dendrobranchiata; Penaeoidea;  
 OC Penaeidae; Penaeus.  
 OX NCBI\_TaxID=6687;  
 RN [1]  
 RP SEQUENCE, AND MASS SPECTROMETRY.  
 RC TISSUE=Eyestalk;  
 RX MEDLINE=21956277; PubMed=11959015;  
 RA Sithigorngul P., Pupuem J., Krungkasem C., Longyant S.,  
 RA Chaivisuthangkura P., Sithigorngul W., Petsom A.;  
 RT "Seven novel FMRFamide-like neuropeptide sequences from the eyestalk  
 RT of the giant tiger prawn Penaeus monodon."  
 RL Comp. Biochem. Physiol. 131B:325-337(2002).  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- MASS SPECTROMETRY: MW=1301.8; METHOD=MALDI.  
 CC -!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)  
 CC family.  
 DR GO; GO:0007218; P:neuropeptide signaling pathway; TAS.  
 KW Neuropeptide; Amidation.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1301 MW; 9A19C860072DC771 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
 ||  
 Db 6 AL 7

# RESULT 8

LPW\_THETH

ID LPW\_THETH STANDARD; PRT; 11 AA.  
AC P05624;  
DT 01-NOV-1988 (Rel. 09, Created)  
DT 01-NOV-1988 (Rel. 09, Last sequence update)  
DT 30-MAY-2000 (Rel. 39, Last annotation update)  
DE Trp operon leader peptide.  
GN TRPL.  
OS *Thermus thermophilus*.  
OC Bacteria; Deinococcus-Thermus; Deinococci; Thermales; Thermaceae;  
OC *Thermus*.  
OX NCBI\_TaxID=274;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=HB8 / ATCC 27634;  
RX MEDLINE=89000781; PubMed=2844259;  
RA Sato S., Nakada Y., Kanaya S., Tanaka T.;  
RT "Molecular cloning and nucleotide sequence of *Thermus thermophilus*  
RT HB8 trpE and trpG."  
RL Biochim. Biophys. Acta 950:303-312(1988).  
CC -!- FUNCTION: THIS PROTEIN IS INVOLVED IN CONTROL OF THE BIOSYNTHESIS  
CC OF TRYPTOPHAN.  
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CC -----  
DR EMBL; X07744; CAA30565.1; -.  
KW Tryptophan biosynthesis; Leader peptide.  
SQ SEQUENCE 11 AA; 1228 MW; 364B295A772DC5A7 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
||  
Db 2 AL 3

# RESULT 9

MHBI\_KLEPN

ID MHBI\_KLEPN STANDARD; PRT; 11 AA.  
AC P80580;  
DT 01-OCT-1996 (Rel. 34, Created)  
DT 01-OCT-1996 (Rel. 34, Last sequence update)  
DT 01-NOV-1997 (Rel. 35, Last annotation update)  
DE Maleylpyruvate isomerase (EC 5.2.1.4) (Fragment).  
GN MHBI.  
OS *Klebsiella pneumoniae*.  
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;

OC Enterobacteriaceae; Klebsiella.  
 OX NCBI\_TaxID=573;  
 RN [1]  
 RP SEQUENCE.  
 RX MEDLINE=96349117; PubMed=8760924;  
 RA Robson N.D., Parrott S., Cooper R.A.;  
 RT "In vitro formation of a catabolic plasmid carrying Klebsiella  
 RT pneumoniae DNA that allows growth of Escherichia coli K-12 on 3-  
 RT hydroxybenzoate.";  
 RL Microbiology 142:2115-2120(1996).  
 CC -!- CATALYTIC ACTIVITY: 3-maleylpyruvate = 3-fumarylpyruvate.  
 KW Isomerase.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1387 MW; 1EE0E2DD49C9D5AB CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RA 3  
 ||  
 Db 10 RA 11

# RESULT 10

NUHM\_CANFA  
 ID NUHM\_CANFA STANDARD; PRT; 11 AA.  
 AC P49820;  
 DT 01-OCT-1996 (Rel. 34, Created)  
 DT 15-JUL-1998 (Rel. 36, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE NADH-ubiquinone oxidoreductase 24 kDa subunit (EC 1.6.5.3)  
 DE (EC 1.6.99.3) (Fragment).  
 GN NDUFV2.  
 OS Canis familiaris (Dog).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.  
 OX NCBI\_TaxID=9615;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Heart;  
 RX MEDLINE=98163340; PubMed=9504812;  
 RA Dunn M.J., Corbett J.M., Wheeler C.H.;  
 RT "HSC-2DPAGE and the two-dimensional gel electrophoresis database of  
 RT dog heart proteins.";  
 RL Electrophoresis 18:2795-2802(1997).  
 CC -!- FUNCTION: TRANSFER OF ELECTRONS FROM NADH TO THE RESPIRATORY  
 CC CHAIN. THE IMMEDIATE ELECTRON ACCEPTOR FOR THE ENZYME IS BELIEVED  
 CC TO BE UBIQUINONE. COMPONENT OF THE FLAVOPROTEIN-SULFUR (FP)  
 CC FRAGMENT OF THE ENZYME.  
 CC -!- CATALYTIC ACTIVITY: NADH + ubiquinone = NAD(+) + ubiquinol.  
 CC -!- CATALYTIC ACTIVITY: NADH + acceptor = NAD(+) + reduced acceptor.  
 CC -!- COFACTOR: Binds 1 2Fe-2S cluster (Potential).  
 CC -!- SUBUNIT: Mammalian complex I is composed of 45 different subunits.  
 CC -!- SUBCELLULAR LOCATION: Matrix and cytoplasmic side of the  
 CC mitochondrial inner membrane.  
 CC -!- SIMILARITY: Belongs to the complex I 24 kDa subunit family.

DR HSC-2DPAGE; P49820; DOG.  
 DR InterPro; IPR002023; Cmplx1\_24kDa.  
 DR PROSITE; PS01099; COMPLEX1\_24K; PARTIAL.  
 KW Oxidoreductase; NAD; Ubiquinone; Mitochondrion; Metal-binding;  
 KW Iron-sulfur; Iron; 2Fe-2S.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1099 MW; 267F5369C9C72DD8 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
 ||  
 Db 1 GA 2

# RESULT 11

OAIF\_SARBU

ID OAIF\_SARBU STANDARD; PRT; 11 AA.  
 AC P83518;  
 DT 10-OCT-2003 (Rel. 42, Created)  
 DT 10-OCT-2003 (Rel. 42, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Ovary-derived ACE interactive factor (Neb-ODAIF) [Contains: Neb-ODAIF(1-9); Neb-ODAIF(1-7)].  
 OS Sarcophaga bullata (Grey flesh fly) (Neobellieria bullata).  
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
 OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;  
 OC Sarcophagidae; Sarcophaga.  
 OX NCBI\_TaxID=7385;  
 RN [1]  
 RP SEQUENCE, SYNTHESIS, CHARACTERIZATION, AND MASS SPECTROMETRY.  
 RC TISSUE=Ovary;  
 RX MEDLINE=22272747; PubMed=12383874;  
 RA Vandingenen A., Hens K., Baggerman G., Macours N., Schoofs L.,  
 RA De Loof A., Huybrechts R.;  
 RT "Isolation and characterization of an angiotensin converting enzyme  
 RT substrate from vitellogenic ovaries of Neobellieria bullata.";  
 RL Peptides 23:1853-1863(2002).  
 CC -!- FUNCTION: Substrate for angiotensin converting enzyme (ACE) in  
 CC vitro.  
 CC -!- PTM: ACE hydrolyzes Neb-ODAIF by sequentially cleaving off two C-  
 CC terminal dipeptides.  
 CC -!- MASS SPECTROMETRY: MW=1312.7; METHOD=MALDI; RANGE=1-11.  
 CC -!- SIMILARITY: To the N-terminal part of insect vitellogenins.  
 FT PEPTIDE 1 11 NEB-ODAIF.  
 FT PEPTIDE 1 9 NEB-ODAIF(1-9).  
 FT PEPTIDE 1 7 NEB-ODAIF(1-7).  
 SQ SEQUENCE 11 AA; 1314 MW; 4E114BB566C5A763 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10  
 ||

## RESULT 12

## PVK1\_PERAM

ID PVK1\_PERAM STANDARD; PRT; 11 AA.  
 AC P41837;  
 DT 01-NOV-1995 (Rel. 32, Created)  
 DT 01-NOV-1995 (Rel. 32, Last sequence update)  
 DT 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Periviscerokinin-1 (Pea-PVK-1).  
 OS Periplaneta americana (American cockroach).  
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
 OC Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blattoidea;  
 OC Blattidae; Periplaneta.  
 OX NCBI\_TaxID=6978;  
 RN [1]  
 RP SEQUENCE, AND SYNTHESIS.  
 RC TISSUE=Abdominal perisymphathetic organs;  
 RX MEDLINE=95232021; PubMed=7716075;  
 RA Predel R., Linde D., Rapus J., Vettermann S., Penzlin H.;  
 RT "Periviscerokinin (Pea-PVK): a novel myotropic neuropeptide from the  
 RT perisymphathetic organs of the American cockroach."  
 RL Peptides 16:61-66(1995).  
 CC -!- FUNCTION: MYOACTIVE PEPTIDE; HAS EXCITORY ACTIONS ON THE  
 CC HYPERNEURAL MUSCLE.  
 KW Neuropeptide; Amidation.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1114 MW; 39DB5419D7605728 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
 ||  
 Db 1 GA 2

## RESULT 13

## Q2OA\_COMTE

ID Q2OA\_COMTE STANDARD; PRT; 11 AA.  
 AC P80464;  
 DT 01-NOV-1995 (Rel. 32, Created)  
 DT 01-NOV-1995 (Rel. 32, Last sequence update)  
 DT 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Quinoline 2-oxidoreductase, alpha chain (EC 1.3.99.17) (Fragment).  
 OS Comamonas testosteroni (Pseudomonas testosteroni).  
 OC Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;  
 OC Comamonadaceae; Comamonas.  
 OX NCBI\_TaxID=285;  
 RN [1]  
 RP SEQUENCE.  
 RC STRAIN=63;  
 RX MEDLINE=96035889; PubMed=7556204;  
 RA Schach S., Tshisuaka B., Fetzner S., Lingens F.;  
 RT "Quinoline 2-oxidoreductase and 2-oxo-1,2-dihydroquinoline 5,6-



RT dioxygenase from Comamonas testosteroni 63. The first two enzymes in  
 RT quinoline and 3-methylquinoline degradation.";  
 RL Eur. J. Biochem. 232:536-544(1995).  
 CC -!- FUNCTION: Converts (3-methyl-)-quinoline to (3-methyl-)2-oxo-  
 CC 1,2-dihydroquinoline.  
 CC -!- CATALYTIC ACTIVITY: Quinoline + acceptor + H(2)O = isoquinolin-  
 CC 1(2H)-one + reduced acceptor.  
 CC -!- COFACTOR: FAD, molybdenum and iron-sulfur.  
 CC -!- PATHWAY: Degradation of quinoline and (3-methyl-)quinoline; first  
 CC step.  
 CC -!- SUBUNIT: Heterohexamer of two alpha chains, two beta chains, and  
 CC two gamma chains (Probable).  
 DR PIR; S66606; S66606.  
 KW Oxidoreductase; Flavoprotein; FAD; Molybdenum.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1213 MW; 869094322B1DC2CA CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AK 9  
 ||  
 Db 1 AK 2

#### RESULT 14

RRPL\_CHAV

ID RRPL\_CHAV STANDARD; PRT; 11 AA.  
 AC P13179;  
 DT 01-JAN-1990 (Rel. 13, Created)  
 DT 01-JAN-1990 (Rel. 13, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE RNA polymerase beta subunit (EC 2.7.7.48) (Large structural protein)  
 DE (L protein) (Fragment).  
 GN L.  
 OS Chandipura virus (strain I653514).  
 OC Viruses; ssRNA negative-strand viruses; Mononegavirales;  
 OC Rhabdoviridae; Vesiculovirus.  
 OX NCBI\_TaxID=11273;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=89299473; PubMed=2741347;  
 RA Masters P.S., Bhella R.S., Butcher M., Patel B., Ghosh H.P.,  
 RA Banerjee A.K.;  
 RT "Structure and expression of the glycoprotein gene of Chandipura  
 RT virus.";  
 RL Virology 171:285-290(1989).  
 CC -!- FUNCTION: THIS PROTEIN IS PROBABLY A COMPONENT OF THE ACTIVE  
 CC POLYMERASE. IT MAY FUNCTION IN RNA SYNTHESIS, CAPPING, AS WELL AS  
 CC METHYLATION OF CAPS, AND POLY(A) SYNTHESIS.  
 CC -!- CATALYTIC ACTIVITY: N nucleoside triphosphate = N diphosphate +  
 CC {RNA} (N).  
 CC -!- SUBUNIT: THOUGHT TO FORM A TRANSCRIPTION COMPLEX WITH THE  
 CC NUCLEOCAPSID (N) PROTEIN.  
 CC -!- SIMILARITY: WITH THE L PROTEIN OF OTHER RHABDOVIRUSES AND  
 CC PARAMYXOVIRUSES.

```

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CC -----
DR EMBL; J04350; AAA42917.1; -.
KW Transferase; RNA-directed RNA polymerase.
FT NON_TER      11      11
SQ SEQUENCE    11 AA;  1189 MW;  0335D6E3AAB2D764 CRC64;

```

```

Query Match          18.2%; Score 2; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.6e+04;
Matches      2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      4 LN 5
        ||
Db      3 LN 4

```

# RESULT 15

## TKN2\_UPERU

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ID TKN2_UPERU      STANDARD;      PRT;      11 AA.
AC P08616;
DT 01-AUG-1988 (Rel. 08, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Rugosauperolein II ([Lys5,Thr6]physalaemin).
OS Uperoleia rugosa (Wrinkled toadlet).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Myobatrachidae;
OC Myobatrachinae; Uperoleia.
OX NCBI_TaxID=8368;
RN [1]
RP SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=80223080; PubMed=7389029;
RA Nakajima T., Yasuhara T., Erspamer V., Erspamer G.F., Negri L.;
RT "Physalaemin- and bombesin-like peptides in the skin of the
RT Australian leptodactylid frog Uperoleia rugosa.";
RL Chem. Pharm. Bull. 28:689-695(1980).
CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,
CC          evoke behavioral responses, are potent vasodilators and
CC          secretagogues, and contract (directly or indirectly) many smooth
CC          muscles.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Skin.
CC -!- SIMILARITY: Belongs to the tachykinin family.
DR InterPro; IPR002040; Tachy_Neurokinin.
DR Pfam; PF02202; Tachykinin; 1.
DR PROSITE; PS00267; TACHYKININ; 1.
KW Amphibian defense peptide; Tachykinin; Neuropeptide; Amidation;
KW Pyrrolidone carboxylic acid.
FT MOD_RES      1      1      PYRROLIDONE CARBOXYLIC ACID.

```

FT MOD\_RES 11 11 AMIDATION.  
SQ SEQUENCE 11 AA; 1270 MW; 3293693E59D1A327 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
||  
Db 4 PK 5

#### RESULT 16

TKNA\_GADMO  
ID TKNA\_GADMO STANDARD; PRT; 11 AA.  
AC P28498;  
DT 01-DEC-1992 (Rel. 24, Created)  
DT 01-DEC-1992 (Rel. 24, Last sequence update)  
DT 10-OCT-2003 (Rel. 42, Last annotation update)  
DE Substance P.  
OS Gadus morhua (Atlantic cod).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;  
OC Acanthomorpha; Paracanthopterygii; Gadiformes; Gadidae; Gadus.  
OX NCBI\_TaxID=8049;  
RN [1]  
RP SEQUENCE.  
RC TISSUE=Brain;  
RX MEDLINE=92298992; PubMed=1376687;  
RA Jensen J., Conlon J.M.;  
RT "Substance-P-related and neurokinin-A-related peptides from the brain  
RT of the cod and trout.";  
RL Eur. J. Biochem. 206:659-664(1992).  
CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
CC evoke behavioral responses, are potent vasodilators and  
CC secretagogues, and contract (directly or indirectly) many smooth  
CC muscles.  
CC -!- SUBCELLULAR LOCATION: Secreted.  
CC -!- SIMILARITY: Belongs to the tachykinin family.  
DR PIR; S23306; S23306.  
DR InterPro; IPR002040; Tachy\_Neurokinin.  
DR InterPro; IPR008215; Tachykinin.  
DR Pfam; PF02202; Tachykinin; 1.  
DR SMART; SM00203; TK; 1.  
DR PROSITE; PS00267; TACHYKININ; 1.  
KW Tachykinin; Neuropeptide; Amidation; Neurotransmitter.  
FT MOD\_RES 11 11 AMIDATION (BY SIMILARITY).  
SQ SEQUENCE 11 AA; 1315 MW; 214860D759D6C6C7 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10  
||  
Db 1 KP 2

RESULT 17

TKNA\_HORSE

ID TKNA\_HORSE STANDARD; PRT; 11 AA.  
AC P01290;  
DT 21-JUL-1986 (Rel. 01, Created)  
DT 21-JUL-1986 (Rel. 01, Last sequence update)  
DT 10-OCT-2003 (Rel. 42, Last annotation update)  
DE Substance P.  
GN TAC1 OR NKNA OR TAC2 OR NKA.  
OS Equus caballus (Horse), and  
OS Cavia porcellus (Guinea pig).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Perissodactyla; Equidae; Equus.  
OX NCBI\_TaxID=9796, 10141;  
RN [1]  
RP SEQUENCE.  
RC SPECIES=Horse;  
RA Studer R.O., Trzeciak A., Lergier W.;  
RT "Isolation and amino-acid sequence of substance P from horse  
RT intestine.";  
RL Helv. Chim. Acta 56:860-866(1973).  
RN [2]  
RP SEQUENCE.  
RC SPECIES=C.porcellus;  
RX MEDLINE=90044685; PubMed=2478925;  
RA Murphy R.;  
RT "Primary amino acid sequence of guinea-pig substance P.";  
RL Neuropeptides 14:105-110(1989).  
CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
CC evoke behavioral responses, are potent vasodilators and  
CC secretagogues, and contract (directly or indirectly) many smooth  
CC muscles.  
CC -!- SUBCELLULAR LOCATION: Secreted.  
CC -!- SIMILARITY: Belongs to the tachykinin family.  
DR PIR; A01558; SPHO.  
DR PIR; A60654; A60654.  
DR InterPro; IPR002040; Tachy\_Neurokinin.  
DR InterPro; IPR008215; Tachykinin.  
DR Pfam; PF02202; Tachykinin; 1.  
DR SMART; SM00203; TK; 1.  
DR PROSITE; PS00267; TACHYKININ; 1.  
KW Tachykinin; Neuropeptide; Amidation; Neurotransmitter.  
FT MOD\_RES 11 11 AMIDATION.  
SQ SEQUENCE 11 AA; 1349 MW; 3E757FE3C9D6C6C7 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
||  
Db 2 PK 3

RESULT 18

TKNA\_ONCMY

ID TKNA\_ONCMY STANDARD; PRT; 11 AA.  
 AC P28499;  
 DT 01-DEC-1992 (Rel. 24, Created)  
 DT 01-DEC-1992 (Rel. 24, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Substance P.  
 OS Oncorhynchus mykiss (Rainbow trout) (Salmo gairdneri).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;  
 OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.  
 OX NCBI\_TaxID=8022;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Brain;  
 RX MEDLINE=92298992; PubMed=1376687;  
 RA Jensen J., Conlon J.M.;  
 RT "Substance-P-related and neurokinin-A-related peptides from the brain  
 RT of the cod and trout.";  
 RL Eur. J. Biochem. 206:659-664(1992).  
 CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
 CC evoke behavioral responses, are potent vasodilators and  
 CC secretagogues, and contract (directly or indirectly) many smooth  
 CC muscles.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- SIMILARITY: Belongs to the tachykinin family.  
 DR PIR; S23308; S23308.  
 DR InterPro; IPR002040; Tachy\_Neurokinin.  
 DR InterPro; IPR008215; Tachykinin.  
 DR Pfam; PF02202; Tachykinin; 1.  
 DR SMART; SM00203; TK; 1.  
 DR PROSITE; PS00267; TACHYKININ; 1.  
 KW Tachykinin; Neuropeptide; Amidation; Neurotransmitter.  
 FT MOD\_RES 11 11 AMIDATION (BY SIMILARITY).  
 SQ SEQUENCE 11 AA; 1358 MW; 214860DEC9D6D1F7 CRC64;  
  
 Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
 Qy 9 KP 10  
 ||  
 Db 1 KP 2

# RESULT 19

TKNA\_RANCA  
 ID TKNA\_RANCA STANDARD; PRT; 11 AA.  
 AC P22688;  
 DT 01-AUG-1991 (Rel. 19, Created)  
 DT 01-AUG-1991 (Rel. 19, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Ranatachykinin A (RTK A).  
 OS Rana catesbeiana (Bull frog).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae; Rana.  
 OX NCBI\_TaxID=8400;  
 RN [1]

RP SEQUENCE, AND SYNTHESIS.  
 RC TISSUE=Brain, and Intestine;  
 RX MEDLINE=91254337; PubMed=2043143;  
 RA Kozawa H., Hino J., Minamino N., Kangawa K., Matsuo H.;  
 RT "Isolation of four novel tachykinins from frog (*Rana catesbeiana*)  
 RT brain and intestine.";  
 RL Biochem. Biophys. Res. Commun. 177:588-595(1991).  
 RN [2]  
 RP SEQUENCE.  
 RC TISSUE=Intestine;  
 RX MEDLINE=94023216; PubMed=8210506;  
 RA Kangawa K., Kozawa H., Hino J., Minamino N., Matsuo H.;  
 RT "Four novel tachykinins in frog (*Rana catesbeiana*) brain and  
 RT intestine.";  
 RL Regul. Pept. 46:81-88(1993).  
 CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
 CC evoke behavioral responses, are potent vasodilators and  
 CC secretagogues, and contract (directly or indirectly) many smooth  
 CC muscles.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- SIMILARITY: Belongs to the tachykinin family.  
 DR PIR; A61033; A61033.  
 DR InterPro; IPR002040; Tachy\_Neurokinin.  
 DR InterPro; IPR008215; Tachykinin.  
 DR Pfam; PF02202; Tachykinin; 1.  
 DR SMART; SM00203; TK; 1.  
 DR PROSITE; PS00267; TACHYKININ; 1.  
 KW Tachykinin; Neuropeptide; Amidation.  
 FT MOD RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1311 MW; 200D60CC59D40AB7 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10  
 ||  
 Db 1 KP 2

# RESULT 20

TKNA\_RANRI  
 ID TKNA\_RANRI STANDARD; PRT; 11 AA.  
 AC P29207;  
 DT 01-DEC-1992 (Rel. 24, Created)  
 DT 01-DEC-1992 (Rel. 24, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Ranakinin (Substance-P-related peptide).  
 OS *Rana ridibunda* (Laughing frog) (Marsh frog).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae; *Rana*.  
 OX NCBI\_TaxID=8406;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Brain;  
 RX MEDLINE=92044543; PubMed=1658233;  
 RA O'Harte F., Burcher E., Lovas S., Smith D.D., Vaudry H., Conlon J.M.;

RT "Ranakinin: a novel NK1 tachykinin receptor agonist isolated with  
 RT neurokinin B from the brain of the frog *Rana ridibunda*.";  
 RL J. Neurochem. 57:2086-2091(1991).  
 CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
 CC evoke behavioral responses, are potent vasodilators and  
 CC secretagogues, and contract (directly or indirectly) many smooth  
 CC muscles.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- SIMILARITY: Belongs to the tachykinin family.  
 DR InterPro; IPR002040; Tachy\_Neurokinin.  
 DR InterPro; IPR008215; Tachykinin.  
 DR Pfam; PF02202; Tachykinin; 1.  
 DR SMART; SM00203; TK; 1.  
 DR PROSITE; PS00267; TACHYKININ; 1.  
 KW Tachykinin; Neuropeptide; Amidation.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1352 MW; 3A2460CC59D40B07 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10  
 ||  
 Db 1 KP 2

#### RESULT 21

##### TKNA\_SCYCA

ID TKNA\_SCYCA STANDARD; PRT; 11 AA.  
 AC P41333;  
 DT 01-FEB-1995 (Rel. 31, Created)  
 DT 01-FEB-1995 (Rel. 31, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Substance P.  
 OS *Scyliorhinus canicula* (Spotted dogfish) (Spotted catshark).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Chondrichthyes;  
 OC Elasmobranchii; Galeomorphii; Galeoidea; Carcharhiniformes;  
 OC Scyliorhinidae; *Scyliorhinus*.  
 OX NCBI\_TaxID=7830;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Brain;  
 RX MEDLINE=93292508; PubMed=7685693;  
 RA Waugh D., Wang Y., Hazon N., Balment R.J., Conlon J.M.;  
 RT "Primary structures and biological activities of substance-P-related  
 RT peptides from the brain of the dogfish, *Scyliorhinus canicula*.";  
 RL Eur. J. Biochem. 214:469-474(1993).  
 CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
 CC evoke behavioral responses, are potent vasodilators and  
 CC secretagogues, and contract (directly or indirectly) many smooth  
 CC muscles.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- SIMILARITY: Belongs to the tachykinin family.  
 DR PIR; S33300; S33300.  
 DR InterPro; IPR002040; Tachy\_Neurokinin.  
 DR PROSITE; PS00267; TACHYKININ; 1.

KW Tachykinin; Neuropeptide; Amidation; Neurotransmitter.  
FT MOD\_RES 11 11 AMIDATION.  
SQ SEQUENCE 11 AA; 1278 MW; 214860DEC9D6D867 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10  
||  
Db 1 KP 2

#### RESULT 22

TKND\_RANCA

ID TKND\_RANCA STANDARD; PRT; 11 AA.

AC P22691;

DT 01-AUG-1991 (Rel. 19, Created)

DT 01-AUG-1991 (Rel. 19, Last sequence update)

DT 10-OCT-2003 (Rel. 42, Last annotation update)

DE Ranatachykinin D (RTK D).

OS Rana catesbeiana (Bull frog).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae; Rana.

OX NCBI\_TaxID=8400;

RN [1]

RP SEQUENCE, AND SYNTHESIS.

RC TISSUE=Intestine;

RX MEDLINE=91254337; PubMed=2043143;

RA Kozawa H., Hino J., Minamino N., Kangawa K., Matsuo H.;

RT "Isolation of four novel tachykinins from frog (Rana catesbeiana)  
brain and intestine.";

RL Biochem. Biophys. Res. Commun. 177:588-595(1991).

RN [2]

RP SEQUENCE.

RC TISSUE=Intestine;

RX MEDLINE=94023216; PubMed=8210506;

RA Kangawa K., Kozawa H., Hino J., Minamino N., Matsuo H.;

RT "Four novel tachykinins in frog (Rana catesbeiana) brain and  
intestine.";

RL Regul. Pept. 46:81-88(1993).

CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,

CC evoke behavioral responses, are potent vasodilators and

CC secretagogues, and contract (directly or indirectly) many smooth  
CC muscles.

CC -!- SUBCELLULAR LOCATION: Secreted.

CC -!- SIMILARITY: Belongs to the tachykinin family.

DR PIR; D61033; D61033.

DR InterPro; IPR002040; Tachy\_Neurokinin.

DR PROSITE; PS00267; TACHYKININ; FALSE\_NEG.

KW Tachykinin; Neuropeptide; Amidation.

FT MOD\_RES 11 11 AMIDATION.

SQ SEQUENCE 11 AA; 1350 MW; 3A34256C59D40B07 CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



Qy 9 KP 10  
||  
Db 1 KP 2

RESULT 23

ULAG\_HUMAN

ID ULAG\_HUMAN STANDARD; PRT; 11 AA.  
AC P31933;  
DT 01-JUL-1993 (Rel. 26, Created)  
DT 01-JUL-1993 (Rel. 26, Last sequence update)  
DT 15-MAR-2004 (Rel. 43, Last annotation update)  
DE Unknown protein from 2D-page of liver tissue (Spot 118) (Fragment).  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
OX NCBI\_TaxID=9606;  
RN [1]  
RP SEQUENCE.  
RC TISSUE=Liver;  
RX MEDLINE=94147969; PubMed=8313870;  
RA Hughes G.J., Frutiger S., Paquet N., Pasquali C., Sanchez J.-C.,  
RA Tissot J.-D., Bairoch A., Appel R.D., Hochstrasser D.F.;  
RT "Human liver protein map: update 1993."  
RL Electrophoresis 14:1216-1222(1993).  
CC -!- MISCELLANEOUS: On the 2D-gel the determined pI of this unknown  
CC protein is: 5.5, its MW is: 34 kDa.  
DR SWISS-2DPAGE; P31933; HUMAN.  
DR Siena-2DPAGE; P31933; -.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1219 MW; EDABD37F272DDB0A CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
||  
Db 6 AL 7

RESULT 24

UXB2\_YEAST

ID UXB2\_YEAST STANDARD; PRT; 11 AA.  
AC P99013;  
DT 01-NOV-1995 (Rel. 32, Created)  
DT 01-NOV-1995 (Rel. 32, Last sequence update)  
DT 15-MAR-2004 (Rel. 43, Last annotation update)  
DE Unknown protein from 2D-page (Spot 2D-000K2F) (Fragment).  
OS Saccharomyces cerevisiae (Baker's yeast).  
OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;  
OC Saccharomycetales; Saccharomycetaceae; Saccharomyces.  
OX NCBI\_TaxID=4932;  
RN [1]  
RP SEQUENCE.  
RC STRAIN=X2180-1A;

RA Sanchez J.-C., Golaz O., Schaller D., Morch F., Frutiger S.,  
 RA Hughes G.J., Appel R.D., Deshusses J., Hochstrasser D.F.;  
 RL Submitted (AUG-1995) to Swiss-Prot.  
 CC -!- MISCELLANEOUS: On the 2D-gel the determined pI of this unknown  
 CC protein is: 6.20, its MW is: 9.2 kDa.  
 DR SWISS-2DPAGE; P99013; YEAST.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1328 MW; EC38021C0DCB42DA CRC64;

Query Match 18.2%; Score 2; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+04;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AR 2  
 ||  
 Db 7 AR 8

#### RESULT 25

##### ANGT\_CRIGE

ID ANGT\_CRIGE STANDARD; PRT; 11 AA.  
 AC P09037;  
 DT 01-NOV-1988 (Rel. 09, Created)  
 DT 01-NOV-1988 (Rel. 09, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Crinia-angiotensin II.  
 OS Crinia georgiana (Quacking frog).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Myobatrachidae;  
 OC Myobatrachinae; Crinia.  
 OX NCBI\_TaxID=8374;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Skin secretion;  
 RX MEDLINE=80024575; PubMed=488254;  
 RA Erspamer V., Melchiorri P., Nakajima T., Yasuhara T., Endean R.;  
 RT "Amino acid composition and sequence of crinia-angiotensin, an  
 RT angiotensin II-like endecapeptide from the skin of the Australian  
 RT frog Crinia georgiana."  
 RL Experientia 35:1132-1133(1979).  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin.  
 DR PIR; S07207; S07207.  
 KW Vasoconstrictor.  
 SQ SEQUENCE 11 AA; 1271 MW; 8A0921F7DB50440A CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 A 1  
 |  
 Db 1 A 1

#### RESULT 26

##### ASL1\_BACSE

ID ASL1\_BACSE STANDARD; PRT; 11 AA.  
AC P83146;  
DT 28-FEB-2003 (Rel. 41, Created)  
DT 28-FEB-2003 (Rel. 41, Last sequence update)  
DT 28-FEB-2003 (Rel. 41, Last annotation update)  
DE Acharan sulfate lyase 1 (EC 4.2.2.-) (Fragment).  
OS Bacteroides stercoris.  
OC Bacteria; Bacteroidetes; Bacteroides (class); Bacteroidales;  
OC Bacteroidaceae; Bacteroides.  
OX NCBI\_TaxID=46506;  
RN [1]  
RP SEQUENCE, FUNCTION, ENZYME REGULATION, AND SUBUNIT.  
RC STRAIN=HJ-15;  
RX MEDLINE=21223019; PubMed=11322884;  
RA Kim B.-T., Hong S.-W., Kim W.-S., Kim Y.S., Kim D.-H.;  
RT "Purification and characterization of acharan sulfate lyases, two  
RT novel heparinases, from Bacteroides stercoris HJ-15.";  
RL Eur. J. Biochem. 268:2635-2641(2001).  
CC -!- FUNCTION: Degrades acharan sulfate and, to a lesser extent,  
CC heparin and heparan sulfate.  
CC -!- ENZYME REGULATION: Inhibited by cupric ion, nitrogen and cobalt.  
CC Activated by reducing agents, such as DL-dithiothreitol and 2-  
CC mercaptoethanol.  
CC -!- SUBUNIT: Monomer.  
CC -!- PTM: The N-terminus is blocked.  
CC -!- MISCELLANEOUS: Has an isoelectric point of 8.6. Its optimum pH is  
CC 7.2 and optimum temperature 45 degrees Celsius.  
KW Lyase; Heparin-binding.  
FT NON\_TER 1 1  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1395 MW; 01B2DAA241E865AB CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 N 5  
|  
Db 1 N 1

#### RESULT 27

ASL2\_BACSE  
ID ASL2\_BACSE STANDARD; PRT; 11 AA.  
AC P83147;  
DT 28-FEB-2003 (Rel. 41, Created)  
DT 28-FEB-2003 (Rel. 41, Last sequence update)  
DT 28-FEB-2003 (Rel. 41, Last annotation update)  
DE Acharan sulfate lyase 2 (EC 4.2.2.-) (Fragment).  
OS Bacteroides stercoris.  
OC Bacteria; Bacteroidetes; Bacteroides (class); Bacteroidales;  
OC Bacteroidaceae; Bacteroides.  
OX NCBI\_TaxID=46506;  
RN [1]  
RP SEQUENCE, FUNCTION, ENZYME REGULATION, AND SUBUNIT.  
RC STRAIN=HJ-15;  
RX MEDLINE=21223019; PubMed=11322884;

RA Kim B.-T., Hong S.-W., Kim W.-S., Kim Y.S., Kim D.-H.;  
 RT "Purification and characterization of acharan sulfate lyases, two  
 RT novel heparinases, from *Bacteroides stercoris* HJ-15.";  
 RL Eur. J. Biochem. 268:2635-2641(2001).  
 CC -!- FUNCTION: Degrades acharan sulfate and, to a lesser extent,  
 CC heparin and heparan sulfate.  
 CC -!- ENZYME REGULATION: Inhibited by cupric ion, nitrogen and lead.  
 CC Activated by reducing agents, such as DL-dithiothreitol and 2-  
 CC mercaptoethanol.  
 CC -!- SUBUNIT: Monomer.  
 CC -!- PTM: The N-terminus is blocked.  
 CC -!- MISCELLANEOUS: Has an isoelectric point of 8.6. Its optimum pH is  
 CC 7.2 and optimum temperature 45 degrees Celsius.  
 KW Lyase; Heparin-binding.  
 FT NON\_TER 1 1  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1195 MW; D79D897C7AA451AD CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 A 1  
 |  
 Db 4 A 4

#### RESULT 28

##### BPP3\_BOTIN

ID BPP3\_BOTIN STANDARD; PRT; 11 AA.  
 AC P30423;  
 DT 01-APR-1993 (Rel. 25, Created)  
 DT 01-FEB-1994 (Rel. 28, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Bradykinin-potentiating peptide S4,3,2 (10C) (Angiotensin-converting  
 DE enzyme inhibitor).  
 OS Bothrops insularis (Island jararaca) (Queimada jararaca).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;  
 OC Viperidae; Crotalinae; Bothrops.  
 OX NCBI\_TaxID=8723;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Venom;  
 RX MEDLINE=90351557; PubMed=2386615;  
 RA Cintra A.C.O., Vieira C.A., Giglio J.R.;  
 RT "Primary structure and biological activity of bradykinin potentiating  
 RT peptides from *Bothrops insularis* snake venom.";  
 RL J. Protein Chem. 9:221-227(1990).  
 CC -!- FUNCTION: This peptide both inhibits the activity of the  
 CC angiotensin-converting enzyme and enhances the action of  
 CC bradykinin by inhibiting the kinases that inactivate it.  
 CC It acts as an indirect hypotensive agent.  
 DR PIR; C37196; C37196.  
 KW Hypotensive agent; Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 SQ SEQUENCE 11 AA; 1199 MW; 20B25813C7741777 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 L 4  
|  
Db 2 L 2

RESULT 29

BPP4\_BOTIN

ID BPP4\_BOTIN STANDARD; PRT; 11 AA.  
AC P30424;  
DT 01-APR-1993 (Rel. 25, Created)  
DT 01-FEB-1994 (Rel. 28, Last sequence update)  
DT 28-FEB-2003 (Rel. 41, Last annotation update)  
DE Bradykinin-potentiating peptide S4,1,2 (Angiotensin-converting  
DE enzyme inhibitor).  
OS Bothrops insularis (Island jararaca) (Queimada jararaca).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;  
OC Viperidae; Crotalinae; Bothrops.  
OX NCBI\_TaxID=8723;  
RN [1]  
RP SEQUENCE.  
RC TISSUE=Venom;  
RX MEDLINE=90351557; PubMed=2386615;  
RA Cintra A.C.O., Vieira C.A., Giglio J.R.;  
RT "Primary structure and biological activity of bradykinin potentiating  
RT peptides from Bothrops insularis snake venom."  
RL J. Protein Chem. 9:221-227(1990).  
CC -!- FUNCTION: This peptide both inhibits the activity of the  
CC angiotensin-converting enzyme and enhances the action of  
CC bradykinin by inhibiting the kinases that inactivate it.  
CC It acts as an indirect hypotensive agent.  
DR PIR; D37196; D37196.  
KW Hypotensive agent; Pyrrolidone carboxylic acid.  
FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
SQ SEQUENCE 11 AA; 1143 MW; 20BBBF13C7741777 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 G 7  
|  
Db 2 G 2

RESULT 30

BPP\_AGKHP

ID BPP\_AGKHP STANDARD; PRT; 11 AA.  
AC P04562;  
DT 13-AUG-1987 (Rel. 05, Created)  
DT 01-FEB-1994 (Rel. 28, Last sequence update)  
DT 28-FEB-2003 (Rel. 41, Last annotation update)

DE Bradykinin-potentiating peptide (Angiotensin-converting  
 DE enzyme inhibitor).  
 OS Agkistrodon halys pallas (Chinese water mocassin) (Gloydus halys  
 OS pallas).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;  
 OC Viperidae; Crotalinae; Gloydus.  
 OX NCBI\_TaxID=8714;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Venom;  
 RX MEDLINE=86177022; PubMed=3008123;  
 RA Chi C.-W., Wang S.-Z., Xu L.-G., Wang M.-Y., Lo S.-S., Huang W.-D.;  
 RT "Structure-function studies on the bradykinin potentiating peptide  
 RT from Chinese snake venom (Agkistrodon halys pallas).";  
 RL Peptides 6 Suppl. 3:339-342(1985).  
 CC -!- FUNCTION: This peptide both inhibits the activity of the  
 CC angiotensin-converting enzyme and enhances the action of  
 CC bradykinin by inhibiting the kinases that inactivate it.  
 CC It acts as an indirect hypotensive agent.  
 DR PIR; JC0002; XAVIBH.  
 KW Hypotensive agent; Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 SQ SEQUENCE 11 AA; 1112 MW; 30BABF1277686777 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 G 7  
 |  
 Db 2 G 2

RESULT 31  
 BRK\_MEGFL  
 ID BRK\_MEGFL STANDARD; PRT; 11 AA.  
 AC P12797;  
 DT 01-OCT-1989 (Rel. 12, Created)  
 DT 01-OCT-1989 (Rel. 12, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Megascoliakinin ([Thr6]bradykinin-Lys-Ala) [Contains: Bradykinin-like  
 DE peptide ([Thr6]bradykinin)].  
 OS Megascolia flavifrons (Garden dagger wasp) (Solitary wasp).  
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
 OC Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Vespoidea;  
 OC Scoliidae; Megascolia.  
 OX NCBI\_TaxID=7437;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Venom;  
 RX MEDLINE=87293024; PubMed=3617088;  
 RA Yasuhara T., Mantel P., Nakajima T., Piek T.;  
 RT "Two kinins isolated from an extract of the venom reservoirs of the  
 RT solitary wasp Megascolia flavifrons."  
 RL Toxicon 25:527-535(1987).  
 RN [2]

RP SEQUENCE.  
 RC TISSUE=Venom;  
 RA Nakajima T., Piek T., Yashuara T., Mantel P.  
 RT "Two kinins isolated from the venom of Megas.  
 RL Toxicon 26:34-34(1988).  
 CC -!- FUNCTION: Both proteins have bradykinin-  
 CC activities (e.g. smooth muscle contracti.  
 CC -!- SUBCELLULAR LOCATION: Secreted; wasp ven  
 CC -!- SIMILARITY: Belongs to the bradykinin fa  
 DR PIR; B26744; B26744.  
 DR GO; GO:0005615; C:extracellular space; IDA.  
 DR GO; GO:0045776; P:negative regulation of blo  
 DR GO; GO:0045987; P:positive regulation of smo  
 KW Bradykinin; Vasodilator.  
 FT PEPTIDE 1 11 MEGASCOLIAKININ  
 FT PEPTIDE 1 9 BRADYKININ-LIKE  
 SQ SEQUENCE 11 AA; 1273 MW; 33867393D771A9C

Query Match 9.1%; Score 1; DB 1;  
 Best Local Similarity 100.0%; Pred. No. 1.le  
 Matches 1; Conservative 0; Mismatches

Qy 2 R 2  
 |  
 Db 1 R 1

# RESULT 32

CA31\_LITCI

ID CA31\_LITCI STANDARD; PRT; 11 AA.  
 AC P82089;  
 DT 16-OCT-2001 (Rel. 40, Created)  
 DT 16-OCT-2001 (Rel. 40, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Caerulein 3.1/3.1Y4.  
 OS Litoria citropa (Australian blue mountains t.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vert.  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hy.  
 OC Pelodyadinae; Litoria.  
 OX NCBI\_TaxID=94770;  
 RN [1]  
 RP SEQUENCE, AND MASS SPECTROMETRY.  
 RC TISSUE=Skin secretion;  
 RX MEDLINE=20057701; PubMed=10589099;  
 RA Wabnitz P.A., Bowie J.H., Tyler M.J.;  
 RT "Caerulein-like peptides from the skin gland.  
 RT mountain tree frog Litoria citropa. Part 1. .  
 RT using electrospray mass spectrometry."  
 RL Rapid Commun. Mass Spectrom. 13:2498-2502(19  
 CC -!- FUNCTION: Hypotensive neuropeptide (Prob.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin dorsal glands.  
 CC -!- PTM: Isoform 3.1Y4 differs from isoform .  
 CC sulfated.  
 CC -!- MASS SPECTROMETRY: MW=1407; METHOD=Elect.  
 CC -!- SIMILARITY: Belongs to the gastrin/chole  
 DR InterPro; IPR001651; Gastrin.

olia flavifrons.";

like, although lower  
n).  
m reservoirs.  
ily.

d pressure; ISS.  
th muscle contra. . .; TAS.

PEPTIDE.  
CRC64;

Length 11;  
05;  
0; Indels 0; Gaps 0;

ree frog).  
ebrata; Euteleostomi;  
oidea; Hylidae;

s of the Australian blue  
Sequence determination

99).  
able).

3.1 in not being

rospray.  
cystokinin family.



DR PROSITE; PS00259; GASTRIN; FALSE\_NEG.  
 KW Amphibian defense peptide; Hypotensive agent; Amidation; Sulfation;  
 KW Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 FT MOD\_RES 4 4 SULFATION.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1347 MW; 10DAB7D67861A86B CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 G 7  
 |  
 Db 5 G 5

# RESULT 33

## CA32\_LITCI

ID CA32\_LITCI STANDARD; PRT; 11 AA.  
 AC P82090;  
 DT 16-OCT-2001 (Rel. 40, Created)  
 DT 16-OCT-2001 (Rel. 40, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Caerulein 3.2/3.2Y4.  
 OS Litoria citropa (Australian blue mountains tree frog).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;  
 OC Pelodyadinae; Litoria.  
 OX NCBI\_TaxID=94770;  
 RN [1]  
 RP SEQUENCE, AND MASS SPECTROMETRY.  
 RC TISSUE=Skin secretion;  
 RX MEDLINE=20057701; PubMed=10589099;  
 RA Wabnitz P.A., Bowie J.H., Tyler M.J.;  
 RT "Caerulein-like peptides from the skin glands of the Australian blue  
 RT mountains tree frog Litoria citropa. Part 1. Sequence determination  
 RT using electrospray mass spectrometry."  
 RL Rapid Commun. Mass Spectrom. 13:2498-2502(1999).  
 CC -!- FUNCTION: Hypotensive neuropeptide (Probable).  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin dorsal glands.  
 CC -!- PTM: Isoform 3.2Y4 differs from isoform 3.2 in not being  
 CC sulfated.  
 CC -!- MASS SPECTROMETRY: MW=1423; METHOD=Electrospray.  
 CC -!- SIMILARITY: Belongs to the gastrin/cholecystokinin family.  
 DR InterPro; IPR001651; Gastrin.  
 DR PROSITE; PS00259; GASTRIN; FALSE\_NEG.  
 KW Amphibian defense peptide; Hypotensive agent; Amidation; Sulfation;  
 KW Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 FT MOD\_RES 4 4 SULFATION.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1363 MW; 10DAB8867861A86B CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;

Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 G 7  
|  
Db 5 G 5

RESULT 34

CA41\_LITCI

ID CA41\_LITCI STANDARD; PRT; 11 AA.  
AC P82091;  
DT 16-OCT-2001 (Rel. 40, Created)  
DT 16-OCT-2001 (Rel. 40, Last sequence update)  
DT 10-OCT-2003 (Rel. 42, Last annotation update)  
DE Caerulein 4.1/4.1Y4.  
OS Litoria citropa (Australian blue mountains tree frog).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;  
OC Pelodyadinae; Litoria.  
OX NCBI\_TaxID=94770;  
RN [1]  
RP SEQUENCE, AND MASS SPECTROMETRY.  
RC TISSUE=Skin secretion;  
RX MEDLINE=20057701; PubMed=10589099;  
RA Wabnitz P.A., Bowie J.H., Tyler M.J.;  
RT "Caerulein-like peptides from the skin glands of the Australian blue  
RT montains tree frog Litoria citropa. Part 1. Sequence determination  
RT using electrospray mass spectrometry."  
RL Rapid Commun. Mass Spectrom. 13:2498-2502(1999).  
CC -!- FUNCTION: Hypotensive neuropeptide (Probable).  
CC -!- SUBCELLULAR LOCATION: Secreted.  
CC -!- TISSUE SPECIFICITY: Skin dorsal glands.  
CC -!- PTM: Isoform 4.1Y4 differs from isoform 4.1 in not being  
CC sulfated.  
CC -!- MASS SPECTROMETRY: MW=1388; METHOD=Electrospray.  
CC -!- SIMILARITY: Belongs to the gastrin/cholecystokinin family.  
DR InterPro; IPR001651; Gastrin.  
DR PROSITE; PS00259; GASTRIN; FALSE\_NEG.  
KW Amphibian defense peptide; Hypotensive agent; Amidation; Sulfation;  
KW Pyrrolidone carboxylic acid.  
FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
FT MOD\_RES 4 4 SULFATION.  
FT MOD\_RES 11 11 AMIDATION.  
SQ SEQUENCE 11 AA; 1328 MW; 10DAB7C4F5B861BB CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 G 7  
|  
Db 6 G 6

RESULT 35

CA42\_LITCI

ID CA42\_LITCI STANDARD; PRT; 11 AA.

AC P82092;  
 DT 16-OCT-2001 (Rel. 40, Created)  
 DT 16-OCT-2001 (Rel. 40, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Caerulein 4.2/4.2Y4.  
 OS Litoria citropa (Australian blue mountains tree frog).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hylloidea; Hylidae;  
 OC Pelodyadinae; Litoria.  
 OX NCBI\_TaxID=94770;  
 RN [1]  
 RP SEQUENCE, AND MASS SPECTROMETRY.  
 RC TISSUE=Skin secretion;  
 RX MEDLINE=20057701; PubMed=10589099;  
 RA Wabnitz P.A., Bowie J.H., Tyler M.J.;  
 RT "Caerulein-like peptides from the skin glands of the Australian blue  
 RT mountains tree frog Litoria citropa. Part 1. Sequence determination  
 RT using electrospray mass spectrometry."  
 RL Rapid Commun. Mass Spectrom. 13:2498-2502(1999).  
 CC -!- FUNCTION: Hypotensive neuropeptide (Probable).  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin dorsal glands.  
 CC -!- PTM: Isoform 4.2Y4 differs from isoform 4.2 in not being  
 CC sulfated.  
 CC -!- MASS SPECTROMETRY: MW=1404; METHOD=Electrospray.  
 CC -!- SIMILARITY: Belongs to the gastrin/cholecystokinin family.  
 DR InterPro; IPR001651; Gastrin.  
 DR PROSITE; PS00259; GASTRIN; FALSE\_NEG.  
 KW Amphibian defense peptide; Hypotensive agent; Amidation; Sulfation;  
 KW Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 FT MOD\_RES 4 4 SULFATION.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1344 MW; 10DAB894F5B861BB CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 G 7  
 |  
 Db 6 G 6

# RESULT 36

CEP1\_ACHFU

ID CEP1\_ACHFU STANDARD; PRT; 11 AA.

AC P22790;

DT 01-AUG-1991 (Rel. 19, Created)

DT 01-AUG-1991 (Rel. 19, Last sequence update)

DT 01-DEC-1992 (Rel. 24, Last annotation update)

DE Cardio-excitatory peptide-1 (ACEP-1).

OS Achatina fulica (Giant African snail).

OC Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;

OC Sigmurethra; Achatinoidea; Achatinidae; Achatina.

OX NCBI\_TaxID=6530;

RN [1]

RP SEQUENCE.  
 RC STRAIN=Ferussac; TISSUE=Heart atrium;  
 RX MEDLINE=90211261; PubMed=2322251;  
 RA Fujimoto K., Ohta N., Yoshida M., Kubota I., Muneoka Y., Kobayashi M.;  
 RT "A novel cardio-excitatory peptide isolated from the atria of the  
 RT African giant snail, Achatina fulica.";  
 RL Biochem. Biophys. Res. Commun. 167:777-783(1990).  
 CC -!- FUNCTION: Potentiates the beat of the ventricle, and has also  
 CC excitatory actions on the penis retractor muscle, the buccal  
 CC muscle and the identified neurons controlling the buccal muscle  
 CC movement of achatina.  
 CC -!- SIMILARITY: TO POSSIBLE PEPTIDE L5 FROM APLYSIA.  
 DR PIR; A34662; A34662.  
 KW Hormone; Amidation.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1305 MW; 82D6D5B9C7741365 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 G 7  
 |  
 Db 2 G 2

# RESULT 37

## CORZ\_PERAM

ID CORZ\_PERAM STANDARD; PRT; 11 AA.  
 AC P11496;  
 DT 01-OCT-1989 (Rel. 12, Created)  
 DT 01-FEB-1994 (Rel. 28, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Corazonin.  
 OS Periplaneta americana (American cockroach).  
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
 OC Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blattoidea;  
 OC Blattidae; Periplaneta.  
 OX NCBI\_TaxID=6978;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Corpora cardiaca;  
 RX MEDLINE=89325572; PubMed=2753132;  
 RA Veenstra J.A.;  
 RT "Isolation and structure of corazonin, a cardioactive peptide from  
 RT the American cockroach.";  
 RL FEBS Lett. 250:231-234(1989).  
 CC -!- FUNCTION: Cardioactive peptide. Corazonin is probably involved  
 CC in the physiological regulation of the heart beat.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 DR PIR; S05002; S05002.  
 KW Neuropeptide; Amidation; Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1387 MW; C7CFF32D6415AB46 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;

Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
|  
Db 7 R 7

RESULT 38

COXA\_CANFA

ID COXA\_CANFA STANDARD; PRT; 11 AA.  
AC P99501;  
DT 15-JUL-1998 (Rel. 36, Created)  
DT 15-JUL-1998 (Rel. 36, Last sequence update)  
DT 30-MAY-2000 (Rel. 39, Last annotation update)  
DE Cytochrome c oxidase polypeptide Va (EC 1.9.3.1) (Fragment).  
GN COX5A.  
OS Canis familiaris (Dog).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.  
OX NCBI\_TaxID=9615;  
RN [1]  
RP SEQUENCE.  
RC TISSUE=Heart;  
RX MEDLINE=98163340; PubMed=9504812;  
RA Dunn M.J., Corbett J.M., Wheeler C.H.;  
RT "HSC-2DPAGE and the two-dimensional gel electrophoresis database of  
RT dog heart proteins.";  
RL Electrophoresis 18:2795-2802(1997).  
CC -!- FUNCTION: This is the heme A-containing chain of cytochrome c  
CC oxidase, the terminal oxidase in mitochondrial electron transport.  
CC -!- CATALYTIC ACTIVITY: 4 ferrocycytochrome c + O(2) = 4 ferricytochrome  
CC c + 2 H(2)O.  
CC -!- SUBCELLULAR LOCATION: Mitochondrial inner membrane.  
CC -!- SIMILARITY: Belongs to the cytochrome c oxidase Va family.  
DR HSC-2DPAGE; P99501; DOG.  
DR InterPro; IPR003204; Cyt\_c\_ox5A.  
DR Pfam; PF02284; COX5A; 1.  
KW Oxidoreductase; Heme; Mitochondrion; Inner membrane.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1274 MW; 910B35C5B1AB11F5 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 G 7  
|  
Db 3 G 3

RESULT 39

CX5A\_CONAL

ID CX5A\_CONAL STANDARD; PRT; 11 AA.  
AC P58848;  
DT 28-FEB-2003 (Rel. 41, Created)  
DT 28-FEB-2003 (Rel. 41, Last sequence update)

DT 15-MAR-2004 (Rel. 43, Last annotation update)  
 DE Conotoxin au5a.  
 OS Conus aulicus (Court cone).  
 OC Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;  
 OC Apogastropoda; Caenogastropoda; Sorbeoconcha; Hypsogastropoda;  
 OC Neogastropoda; Conoidea; Conidae; Conus.  
 OX NCBI\_TaxID=89437;  
 RN [1]  
 RP SEQUENCE, SYNTHESIS, AND MASS SPECTROMETRY.  
 RC TISSUE=Venom;  
 RX MEDLINE=99452958; PubMed=10521453;  
 RA Walker C.S., Steel D., Jacobsen R.B., Lirazan M.B., Cruz L.J.,  
 RA Hooper D., Shetty R., Delacruz R.C., Nielsen J.S., Zhou L.M.,  
 RA Bandyopadhyay P., Craig A.G., Olivera B.M.;  
 RT "The T-superfamily of conotoxins."  
 RL J. Biol. Chem. 274:30664-30671(1999).  
 RN [2]  
 RP ERRATUM.  
 RA Walker C.S., Steel D., Jacobsen R.B., Lirazan M.B., Cruz L.J.,  
 RA Hooper D., Shetty R., Delacruz R.C., Nielsen J.S., Zhou L.M.,  
 RA Bandyopadhyay P., Craig A.G., Olivera B.M.;  
 RL J. Biol. Chem. 274:36030-36030(1999).  
 CC -!- FUNCTION: Causes dorsal fins drooping in fish. No effect is  
 CC observed when injected into mice.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Expressed by the venom duct.  
 CC -!- MASS SPECTROMETRY: MW=1436.6; METHOD=LSIMS.  
 CC -!- SIMILARITY: Belongs to the conotoxin T-superfamily.  
 DR PIR; A59146; A59146.  
 KW Toxin.  
 FT DISULFID 2 9  
 FT DISULFID 3 10  
 SQ SEQUENCE 11 AA; 1441 MW; 21A36775440059D7 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 R 2  
 |  
 Db 7 R 7

#### RESULT 40

CX5B\_CONAL

ID CX5B\_CONAL STANDARD; PRT; 11 AA.

AC P58849;

DT 28-FEB-2003 (Rel. 41, Created)

DT 28-FEB-2003 (Rel. 41, Last sequence update)

DT 15-MAR-2004 (Rel. 43, Last annotation update)

DE Conotoxin au5b.

OS Conus aulicus (Court cone).

OC Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;

OC Apogastropoda; Caenogastropoda; Sorbeoconcha; Hypsogastropoda;

OC Neogastropoda; Conoidea; Conidae; Conus.

OX NCBI\_TaxID=89437;

RN [1]

RP SEQUENCE, AND MASS SPECTROMETRY.  
RC TISSUE=Venom;  
RX MEDLINE=99452958; PubMed=10521453;  
RA Walker C.S., Steel D., Jacobsen R.B., Lirazan M.B., Cruz L.J.,  
RA Hooper D., Shetty R., DelaCruz R.C., Nielsen J.S., Zhou L.M.,  
RA Bandyopadhyay P., Craig A.G., Olivera B.M.;  
RT "The T-superfamily of conotoxins."  
RL J. Biol. Chem. 274:30664-30671(1999).  
RN [2]  
RP ERRATUM.  
RA Walker C.S., Steel D., Jacobsen R.B., Lirazan M.B., Cruz L.J.,  
RA Hooper D., Shetty R., DelaCruz R.C., Nielsen J.S., Zhou L.M.,  
RA Bandyopadhyay P., Craig A.G., Olivera B.M.;  
RL J. Biol. Chem. 274:36030-36030(1999).  
CC -!- FUNCTION: Causes dorsal fins drooping in fish. No effect is  
CC observed when injected into mice (By similarity).  
CC -!- SUBCELLULAR LOCATION: Secreted.  
CC -!- TISSUE SPECIFICITY: Expressed by the venom duct.  
CC -!- MASS SPECTROMETRY: MW=1388.6; METHOD=LSIMS.  
CC -!- SIMILARITY: Belongs to the conotoxin T-superfamily.  
DR PIR; B59146; B59146.  
KW Toxin.  
FT DISULFID 2 9  
FT DISULFID 3 10  
SQ SEQUENCE 11 AA; 1393 MW; 21A36775440042D7 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
|  
Db 7 R 7

# RESULT 41

## CXL1\_CONMR

ID CXL1\_CONMR STANDARD; PRT; 11 AA.  
AC P58807;  
DT 28-FEB-2003 (Rel. 41, Created)  
DT 28-FEB-2003 (Rel. 41, Last sequence update)  
DT 28-FEB-2003 (Rel. 41, Last annotation update)  
DE Lambda-conotoxin CMrVIA.  
OS Conus marmoreus (Marble cone).  
OC Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;  
OC Apogastropoda; Caenogastropoda; Sorbeoconcha; Hypsogastropoda;  
OC Neogastropoda; Conoidea; Conidae; Conus.  
OX NCBI\_TaxID=42752;  
RN [1]  
RP SEQUENCE, SYNTHESIS, AND MASS SPECTROMETRY.  
RC TISSUE=Venom;  
RX MEDLINE=20564325; PubMed=10988292;  
RA Balaji R.A., Ohtake A., Sato K., Gopalakrishnakone P., Kini R.M.,  
RA Seow K.T., Bay B.-H.;  
RT "Lambda-conotoxins, a new family of conotoxins with unique disulfide  
RT pattern and protein folding. Isolation and characterization from the  
RT venom of Conus marmoreus.";

RL J. Biol. Chem. 275:39516-39522(2000).  
 CC -!- FUNCTION: Inhibits the neuronal noradrenaline transporter.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Expressed by the venom duct.  
 CC -!- MASS SPECTROMETRY: MW=1237.93; MW\_ERR=0.21; METHOD=Electrospray.  
 CC -!- SIMILARITY: Belongs to the chi/lambda-conotoxin family.  
 KW Neurotoxin; Toxin; Hydroxylation.  
 FT DISULFID 2 11  
 FT DISULFID 3 8  
 FT MOD\_RES 10 10 HYDROXYLATION.  
 SQ SEQUENCE 11 AA; 1226 MW; 277AAC60B7232B58 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 G 7  
 |  
 Db 4 G 4

# RESULT 42

## EFG\_CLOPA

ID EFG\_CLOPA STANDARD; PRT; 11 AA.  
 AC P81350;  
 DT 15-JUL-1998 (Rel. 36, Created)  
 DT 15-JUL-1998 (Rel. 36, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Elongation factor G (EF-G) (CP 5) (Fragment).  
 GN FUSA.  
 OS Clostridium pasteurianum.  
 OC Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;  
 OC Clostridium.  
 OX NCBI\_TaxID=1501;  
 RN [1]  
 RP SEQUENCE.  
 RC STRAIN=W5;  
 RX MEDLINE=98291870; PubMed=9629918;  
 RA Flengsrud R., Skjeldal L.;  
 RT "Two-dimensional gel electrophoresis separation and N-terminal  
 RT sequence analysis of proteins from Clostridium pasteurianum W5."  
 RL Electrophoresis 19:802-806(1998).  
 CC -!- FUNCTION: This protein promotes the GTP-dependent translocation of  
 CC the nascent protein chain from the A-site to the P-site of the  
 CC ribosome.  
 CC -!- SUBCELLULAR LOCATION: Cytoplasmic.  
 CC -!- SIMILARITY: Belongs to the GTP-binding elongation factor family.  
 CC EF-G/EF-2 subfamily.  
 DR InterPro; IPR000795; EF\_GTPbind.  
 DR PROSITE; PS00301; EFACTOR\_GTP; PARTIAL.  
 KW Elongation factor; Protein biosynthesis; GTP-binding.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1337 MW; 412E71F1D9C33B17 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



Qy 9 K 9  
|  
Db 1 K 1

RESULT 43

FAR9\_CALVO

ID FAR9\_CALVO STANDARD; PRT; 11 AA.  
AC P41864;  
DT 01-NOV-1995 (Rel. 32, Created)  
DT 01-NOV-1995 (Rel. 32, Last sequence update)  
DT 01-NOV-1995 (Rel. 32, Last annotation update)  
DE CalliFMRFamide 9.  
OS Calliphora vomitoria (Blue blowfly).  
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;  
OC Calliphoridae; Calliphora.  
OX NCBI\_TaxID=27454;  
RN [1]  
RP SEQUENCE.  
RC TISSUE=Thoracic ganglion;  
RX MEDLINE=92196111; PubMed=1549595;  
RA Duve H., Johnsen A.H., Sewell J.C., Scott A.G., Orchard I.,  
RA Rehfeld J.F., Thorpe A.;  
RT "Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH2  
RT neuropeptides (designated calliFMRFamides) from the blowfly  
RT Calliphora vomitoria.";  
RL Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).  
CC -!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)  
CC family.  
DR PIR; I41978; I41978.  
KW Neuropeptide; Amidation.  
FT MOD\_RES 11 11 AMIDATION.  
SQ SEQUENCE 11 AA; 1359 MW; 8160CE46CAA44321 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
|  
Db 10 R 10

RESULT 44

HS70\_PINPS

ID HS70\_PINPS STANDARD; PRT; 11 AA.  
AC P81672;  
DT 15-JUL-1999 (Rel. 38, Created)  
DT 15-JUL-1999 (Rel. 38, Last sequence update)  
DT 15-MAR-2004 (Rel. 43, Last annotation update)  
DE Heat shock 70 kDa protein (Fragment).  
OS Pinus pinaster (Maritime pine).  
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
OC Spermatophyta; Coniferopsida; Coniferales; Pinaceae; Pinus.  
OX NCBI\_TaxID=71647;

RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Needle;  
 RX MEDLINE=99274088; PubMed=10344291;  
 RA Costa P., Pionneau C., Bauw G., Dubos C., Bahrman N., Kremer A.,  
 RA Frigerio J.-M., Plomion C.;  
 RT "Separation and characterization of needle and xylem maritime pine  
 RT proteins.";  
 RL Electrophoresis 20:1098-1108(1999).  
 CC -!- MISCELLANEOUS: On the 2D-gel the determined pI of this protein  
 CC (spot N164) is: 5.4, its MW is: 73 kDa.  
 CC -!- SIMILARITY: Belongs to the heat shock protein 70 family.  
 KW ATP-binding; Heat shock; Multigene family.  
 FT NON\_TER 1 1  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1228 MW; 037C1BE8DAA44DD0 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 A 1  
 |  
 Db 5 A 5

#### RESULT 45

##### LADD\_ONCMY

ID LADD\_ONCMY STANDARD; PRT; 11 AA.  
 AC P81018;  
 DT 01-NOV-1997 (Rel. 35, Created)  
 DT 01-NOV-1997 (Rel. 35, Last sequence update)  
 DT 15-DEC-1998 (Rel. 37, Last annotation update)  
 DE Ladderlectin (Fragment).  
 OS Oncorhynchus mykiss (Rainbow trout) (Salmo gairdneri).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;  
 OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.  
 OX NCBI\_TaxID=8022;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Blood;  
 RX MEDLINE=97293418; PubMed=9149391;  
 RA Jensen L.E., Thiel S., Petersen T.E., Jensenuis J.C.;  
 RT "A rainbow trout lectin with multimeric structure.";  
 RL Comp. Biochem. Physiol. 116B:385-390(1997).  
 CC -!- FUNCTION: Lectin that binds sepharose.  
 CC -!- COFACTOR: Calcium is essential for sepharose binding.  
 CC -!- SUBUNIT: Multimeric.  
 KW Lectin; Calcium.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1163 MW; 0B26227FF6D45404 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 A 1  
|  
Db 1 A 1

RESULT 46

LSK1\_LEUMA

ID LSK1\_LEUMA STANDARD; PRT; 11 AA.  
AC P04428;  
DT 13-AUG-1987 (Rel. 05, Created)  
DT 13-AUG-1987 (Rel. 05, Last sequence update)  
DT 15-MAR-2004 (Rel. 43, Last annotation update)  
DE Leucosulfakinin-I (LSK-I).  
OS Leucophaea maderae (Madeira cockroach).  
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
OC Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blaberoidea;  
OC Blaberidae; Leucophaea.  
OX NCBI\_TaxID=6988;  
RN [1]  
RP SEQUENCE.  
RX MEDLINE=86315858; PubMed=3749893;  
RA Nachman R.J., Holman G.M., Haddon W.F., Ling N.;  
RT "Leucosulfakinin, a sulfated insect neuropeptide with homology to  
RT gastrin and cholecystokinin."  
RL Science 234:71-73(1986).  
CC -!- FUNCTION: Change the frequency and amplitude of contractions of  
CC the hingat. Inhibits muscle contraction of hindgut.  
CC -!- SIMILARITY: Belongs to the gastrin/cholecystokinin family.  
DR PIR; A01622; GMROL.  
DR InterPro; IPR001651; Gastrin.  
DR PROSITE; PS00259; GASTRIN; 1.  
KW Hormone; Amidation; Sulfation.  
FT MOD\_RES 6 6 SULFATION.  
FT MOD\_RES 11 11 AMIDATION.  
SQ SEQUENCE 11 AA; 1459 MW; 7E4E0680E86B5AAB CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
|  
Db 10 R 10

RESULT 47

LSKP\_PERAM

ID LSKP\_PERAM STANDARD; PRT; 11 AA.  
AC P36885;  
DT 01-JUN-1994 (Rel. 29, Created)  
DT 01-JUN-1994 (Rel. 29, Last sequence update)  
DT 01-FEB-1996 (Rel. 33, Last annotation update)  
DE Perisulfakinin (Pea-SK-I).  
OS Periplaneta americana (American cockroach).  
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
OC Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blattodea;  
OC Blattidae; Periplaneta.

OX NCBI\_TaxID=6978;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Corpora cardiaca;  
 RX MEDLINE=90137190; PubMed=2615921;  
 RA Veenstra J.A.;  
 RT "Isolation and structure of two gastrin/CCK-like neuropeptides from  
 RT the American cockroach homologous to the leucosulfakinins.";  
 RL Neuropeptides 14:145-149(1989).  
 CC -!- FUNCTION: Stimulates hindgut contractions.  
 CC -!- SIMILARITY: Belongs to the gastrin/cholecystokinin family.  
 DR PIR; A60656; A60656.  
 DR InterPro; IPR001651; Gastrin.  
 DR PROSITE; PS00259; GASTRIN; 1.  
 KW Hormone; Amidation; Sulfation.  
 FT MOD\_RES 6 6 SULFATION.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1445 MW; 8B4E0680E86B5AAA CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
 |  
 Db 10 R 10

#### RESULT 48

##### MLG\_THETS

ID MLG\_THETS STANDARD; PRT; 11 AA.  
 AC P41989;  
 DT 01-NOV-1995 (Rel. 32, Created)  
 DT 01-NOV-1995 (Rel. 32, Last sequence update)  
 DT 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Melanotropin gamma (Gamma-melanocyte stimulating hormone) (Gamma-MSH).  
 OS Theromyzon tessulatum (Leech).  
 OC Eukaryota; Metazoa; Annelida; Clitellata; Hirudinida; Hirudinea;  
 OC Rhynchobdellida; Glossiphoniidae; Theromyzon.  
 OX NCBI\_TaxID=13286;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Brain;  
 RX MEDLINE=94298944; PubMed=8026574;  
 RA Salzet M., Wattez C., Bulet P., Malecha J.;  
 RT "Isolation and structural characterization of a novel peptide related  
 RT to gamma-melanocyte stimulating hormone from the brain of the leech  
 RT Theromyzon tessulatum.";  
 RL FEBS Lett. 348:102-106(1994).  
 CC -!- SIMILARITY: Belongs to the POMC family.  
 DR PIR; S45698; S45698.  
 KW Hormone; Amidation.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1486 MW; 2DB8FACE6409C1E8 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;

Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
|  
Db 7 R 7

RESULT 49

MORN\_HUMAN

ID MORN\_HUMAN STANDARD; PRT; 11 AA.  
AC P01163;  
DT 21-JUL-1986 (Rel. 01, Created)  
DT 21-JUL-1986 (Rel. 01, Last sequence update)  
DT 28-FEB-2003 (Rel. 41, Last annotation update)  
DE Morphogenetic neuropeptide (Head activator) (HA).  
OS Homo sapiens (Human),  
OS Rattus norvegicus (Rat),  
OS Bos taurus (Bovine),  
OS Anthopleura elegantissima (Sea anemone), and  
OS Hydra attenuata (Hydra) (Hydra vulgaris).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
OX NCBI\_TaxID=9606, 10116, 9913, 6110, 6087;  
RN [1]  
RP SEQUENCE.  
RC SPECIES=Human, Rat, and Bovine;  
RX MEDLINE=82035850; PubMed=7290191;  
RA Bodenmuller H., Schaller H.C.;  
RT "Conserved amino acid sequence of a neuropeptide, the head activator,  
RT from coelenterates to humans.";  
RL Nature 293:579-580(1981).  
RN [2]  
RP SEQUENCE.  
RC SPECIES=A.elegantissima, and H.attenuata;  
RA Schaller H.C., Bodenmuller H.;  
RT "Isolation and amino acid sequence of a morphogenetic peptide from  
RT hydra.";  
RL Proc. Natl. Acad. Sci. U.S.A. 78:7000-7004(1981).  
RN [3]  
RP SYNTHESIS.  
RX MEDLINE=82050803; PubMed=7297679;  
RA Birr C., Zachmann B., Bodenmuller H., Schaller H.C.;  
RT "Synthesis of a new neuropeptide, the head activator from hydra.";  
RL FEBS Lett. 131:317-321(1981).  
RN [4]  
RP FUNCTION.  
RX MEDLINE=90059923; PubMed=2583101;  
RA Schaller H.C., Druffel-Augustin S., Dubel S.;  
RT "Head activator acts as an autocrine growth factor for NH15-CA2 cells  
RT in the G2/mitosis transition.";  
RL EMBO J. 8:3311-3318(1989).  
CC -!- FUNCTION: HA acts as an autocrine growth factor for neural cells  
CC in the G2/mitosis transition.  
CC -!- CAUTION: This peptide was first isolated from nerve cells of hydra  
CC and was called head activator by the authors, because it induced  
CC head-specific growth and differentiation in this animal. It has  
CC been found in mammalian intestine and hypothalamus.

DR PIR; A01427; YHRT.  
 DR PIR; A93900; YHXAE.  
 DR PIR; B01427; YHHU.  
 DR PIR; B93900; YHJFHY.  
 DR PIR; C01427; YHBO.  
 DR GK; P01163; -.  
 KW Growth factor; Cell cycle; Mitosis; Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 SQ SEQUENCE 11 AA; 1142 MW; 37927417C325B878 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 L 4  
 |  
 Db 10 L 10

# RESULT 50

## NXSN\_PSETE

ID NXSN\_PSETE STANDARD; PRT; 11 AA.  
 AC P59072;  
 DT 28-FEB-2003 (Rel. 41, Created)  
 DT 28-FEB-2003 (Rel. 41, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Short neurotoxin N1 (Alpha neurotoxin) (Fragment).  
 OS Pseudonaja textilis (Eastern brown snake).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;  
 OC Elapidae; Acanthophiinae; Pseudonaja.  
 OX NCBI\_TaxID=8673;  
 RN [1]  
 RP SEQUENCE, AND MASS SPECTROMETRY.  
 RC TISSUE=Venom;  
 RX MEDLINE=99449602; PubMed=10518793;  
 RA Gong N.L., Armugam A., Jeyaseelan K.;  
 RT "Postsynaptic short-chain neurotoxins from Pseudonaja textilis: cDNA  
 RT cloning, expression and protein characterization.";  
 RL Eur. J. Biochem. 265:982-989(1999).  
 CC -!- FUNCTION: Lethal neurotoxin, binds and inhibits nicotinic  
 CC acetylcholine receptors (nAChR).  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Expressed by the venom gland.  
 CC -!- MASS SPECTROMETRY: MW=6236; METHOD=Electrospray.  
 CC -!- MISCELLANEOUS: LD(50) is 0.84 mg/kg by intravenous injection.  
 CC -!- SIMILARITY: Belongs to the snake toxin family.  
 DR InterPro; IPR003571; Snake\_toxin.  
 DR PROSITE; PS00272; SNAKE\_TOXIN; PARTIAL.  
 KW Toxin; Neurotoxin; Postsynaptic neurotoxin;  
 KW Acetylcholine receptor inhibitor; Multigene family.  
 FT UNSURE 3 3  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1319 MW; 0D1EF0C81B58732B CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;

Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 L 4  
|  
Db 1 L 1

RESULT 51

PKC1\_CARMO

ID PKC1\_CARMO STANDARD; PRT; 11 AA.

AC P82684;

DT 16-OCT-2001 (Rel. 40, Created)

DT 16-OCT-2001 (Rel. 40, Last sequence update)

DT 16-OCT-2001 (Rel. 40, Last annotation update)

DE Pyrokinin-1 (Cam-PK-1) (FXPRL-Amide).

OS Carausius morosus (Indian stick insect).

OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;

OC Neoptera; Orthopteroidea; Phasmatodea; Euphasmida; Phasmatoidea;

OC Heteronemiidae; Carausius.

OX NCBI\_TaxID=7022;

RN [1]

RP SEQUENCE, FUNCTION, AND MASS SPECTROMETRY.

RC TISSUE=Corpora cardiaca;

RA Predel R., Kellner R., Gaede G.;

RT "Myotropic neuropeptides from the retrocerebral complex of the stick

RT insect, Carausius morosus (Phasmatodea: Lonchodidae).";

RL Eur. J. Entomol. 96:275-278(1999).

CC -!- FUNCTION: Mediates visceral muscle contractile activity (myotropic  
CC activity).

CC -!- MASS SPECTROMETRY: MW=1235; METHOD=MALDI.

CC -!- SIMILARITY: Belongs to the pyrokinin family.

DR InterPro; IPR001484; Pyrokinin.

DR PROSITE; PS00539; PYROKININ; FALSE\_NEG.

KW Neuropeptide; Amidation; Pyrokinin.

FT MOD\_RES 11 11 AMIDATION.

SQ SEQUENCE 11 AA; 1236 MW; 2BFA5225BB46C1A8 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;

Best Local Similarity 100.0%; Pred. No. 1.1e+05;

Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
|  
Db 10 R 10

RESULT 52

PQQC\_PSEFL

ID PQQC\_PSEFL STANDARD; PRT; 11 AA.

AC P55173;

DT 01-OCT-1996 (Rel. 34, Created)

DT 01-OCT-1996 (Rel. 34, Last sequence update)

DT 10-OCT-2003 (Rel. 42, Last annotation update)

DE Coenzyme PQQ synthesis protein C (Pyrroloquinoline quinone

DE biosynthesis protein C) (Fragment).

GN PQQC.

OS Pseudomonas fluorescens.

OC Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;  
 OC Pseudomonadaceae; Pseudomonas.  
 OX NCBI\_TaxID=294;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=CHA0;  
 RX MEDLINE=96064397; PubMed=8526497;  
 RA Schnider U., Keel C., Defago G., Haas D.;  
 RT "Tn5-directed cloning of pqq genes from *Pseudomonas fluorescens* CHA0:  
 RT mutational inactivation of the genes results in overproduction of the  
 RT antibiotic pyoluteorin."  
 RL Appl. Environ. Microbiol. 61:3856-3864(1995).  
 CC -!- PATHWAY: Pyrroloquinoline quinone (PQQ) biosynthesis.  
 CC -!- SIMILARITY: Belongs to the pqqC family.  
 CC -----  
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration  
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
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 CC use by non-profit institutions as long as its content is in no way  
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 CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
 CC -----  
 DR EMBL; X87299; CAA60734.1; -.  
 DR PIR; S58244; S58244.  
 DR HAMAP; MF\_00654; -; 1.  
 KW PQQ biosynthesis.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1182 MW; 89DF46E4C5B73771 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 P 10  
 |  
 Db 5 P 5

# RESULT 53

## RANC\_RANPI

ID RANC\_RANPI STANDARD; PRT; 11 AA.  
 AC P08951;  
 DT 01-NOV-1988 (Rel. 09, Created)  
 DT 01-NOV-1988 (Rel. 09, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Ranatensin-C.  
 OS Rana pipiens (Northern leopard frog).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae; Rana.  
 OX NCBI\_TaxID=8404;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Skin secretion;  
 RX MEDLINE=84131098; PubMed=6141890;  
 RA Nakajima T.;  
 RL Unpublished results, cited by:



RL Erspamer V., Erspamer G.F., Mazzanti G., Endean R.;  
 RL Comp. Biochem. Physiol. 77C:99-108(1984).  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin.  
 CC -!- SIMILARITY: Belongs to the bombesin/neuromedin B/ranatensin  
 CC family.  
 DR InterPro; IPR000874; Bombesin.  
 DR Pfam; PF02044; Bombesin; 1.  
 DR PROSITE; PS00257; BOMBESIN; 1.  
 KW Amphibian defense peptide; Bombesin family; Amidation.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1304 MW; D6C9885A61ADC366 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 P 10  
 |  
 Db 3 P 3

# RESULT 54

## RE41\_LITRU

ID RE41\_LITRU STANDARD; PRT; 11 AA.  
 AC P82074;  
 DT 28-FEB-2003 (Rel. 41, Created)  
 DT 28-FEB-2003 (Rel. 41, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Rubellidin 4.1.  
 OS Litoria rubella (Desert tree frog).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;  
 OC Pelodyadinae; Litoria.  
 OX NCBI\_TaxID=104895;  
 RN [1]  
 RP SEQUENCE, AND MASS SPECTROMETRY.  
 RC TISSUE=Skin secretion;  
 RA Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H., Gao C.,  
 RA Tyler M.J., Wallace J.C.;  
 RT "The structure of new peptides from the Australian red tree frog  
 RT 'Litoria rubella'. The skin peptide profile as a probe for the study  
 RT of evolutionary trends of amphibians."  
 RL Aust. J. Chem. 49:955-963(1996).  
 CC -!- FUNCTION: Shows neither neuropeptide activity nor antibiotic  
 CC activity.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.  
 CC -!- MASS SPECTROMETRY: MW=1039; METHOD=FAB.  
 KW Amphibian defense peptide; Amidation.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1040 MW; 84ED5CBC2877205A CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy            7 G 7  
             |  
Db            1 G 1

RESULT 55

RR2\_CONAM

ID    RR2\_CONAM            STANDARD;            PRT;       11 AA.  
AC    P42341;  
DT    01-NOV-1995 (Rel. 32, Created)  
DT    01-NOV-1995 (Rel. 32, Last sequence update)  
DT    28-FEB-2003 (Rel. 41, Last annotation update)  
DE    Chloroplast 30S ribosomal protein S2 (Fragment).  
GN    RPS2.  
OS    Conopholis americana (Squawroot).  
OG    Chloroplast.  
OC    Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
OC    Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;  
OC    lamiids; Lamiales; Orobanchaceae; Orobancheae; Conopholis.  
OX    NCBI\_TaxID=4179;  
RN    [1]  
RP    SEQUENCE FROM N.A.  
RX    MEDLINE=92145776; PubMed=1723664;  
RA    Taylor G., Wolfe K.H., Morden C.W., Depamphilis C.W., Palmer J.D.;  
RT    "Lack of a functional plastid tRNA(Cys) gene is associated with loss  
RT    of photosynthesis in a lineage of parasitic plants."  
RL    Curr. Genet. 20:515-518(1991).  
CC    -!- SIMILARITY: Belongs to the S2P family of ribosomal proteins.  
CC    -----  
CC    This SWISS-PROT entry is copyright. It is produced through a collaboration  
CC    between the Swiss Institute of Bioinformatics and the EMBL outstation -  
CC    the European Bioinformatics Institute. There are no restrictions on its  
CC    use by non-profit institutions as long as its content is in no way  
CC    modified and this statement is not removed. Usage by and for commercial  
CC    entities requires a license agreement (See <http://www.isb-sib.ch/announce/>  
CC    or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
CC    -----  
DR    EMBL; X64567; CAA45868.1; -.  
DR    PIR; S32575; S32575.  
DR    HAMAP; MF\_00291; -; 1.  
DR    InterPro; IPR001865; Ribosomal\_S2.  
DR    PROSITE; PS00962; RIBOSOMAL\_S2\_1; PARTIAL.  
DR    PROSITE; PS00963; RIBOSOMAL\_S2\_2; PARTIAL.  
KW    Ribosomal protein; Chloroplast.  
FT    NON\_TER       11       11  
SQ    SEQUENCE    11 AA;    1497 MW;    76CD719954536B44 CRC64;

Query Match                    9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity    100.0%; Pred. No. 1.1e+05;  
Matches       1; Conservative       0; Mismatches       0; Indels       0; Gaps       0;

Qy            2 R 2  
             |  
Db            3 R 3

RESULT 56

T2P1\_PROVU  
ID T2P1\_PROVU STANDARD; PRT; 11 AA.  
AC P31031;  
DT 01-JUL-1993 (Rel. 26, Created)  
DT 01-JUL-1993 (Rel. 26, Last sequence update)  
DT 10-OCT-2003 (Rel. 42, Last annotation update)  
DE Type II restriction enzyme PvuI (EC 3.1.21.4) (Endonuclease PvuI)  
DE (R.PvuI) (Fragment).  
GN PVUIR.  
OS *Proteus vulgaris*.  
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;  
OC Enterobacteriaceae; *Proteus*.  
OX NCBI\_TaxID=585;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=ATCC 13315;  
RX MEDLINE=93087186; PubMed=1454536;  
RA Smith M.D., Longo M., Gerard G.F., Chatterjee D.K.;  
RT "Cloning and characterization of genes for the PvuI restriction and  
RT modification system."  
RL Nucleic Acids Res. 20:5743-5747(1992).  
CC -!- FUNCTION: RECOGNIZES THE DOUBLE-STRANDED SEQUENCE CGATCG AND  
CC CLEAVES AFTER T-4.  
CC -!- CATALYTIC ACTIVITY: Endonucleolytic cleavage of DNA to give  
CC specific double-stranded fragments with terminal 5'-phosphates.  
CC -----  
CC This SWISS-PROT entry is copyright. It is produced through a collaboration  
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
CC the European Bioinformatics Institute. There are no restrictions on its  
CC use by non-profit institutions as long as its content is in no way  
CC modified and this statement is not removed. Usage by and for commercial  
CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>  
CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
CC -----  
DR EMBL; L04163; AAA25660.1; -.  
DR PIR; S35490; S35490.  
DR REBASE; 1541; PvuI.  
KW Restriction system; Hydrolase; Nuclease; Endonuclease.  
FT NON\_TER 1 1  
SQ SEQUENCE 11 AA; 1300 MW; 9F0CDE7955B72B1A CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 L 4  
|  
Db 6 L 6

# RESULT 57

TIN1\_HOPTI  
ID TIN1\_HOPTI STANDARD; PRT; 11 AA.  
AC P82651;  
DT 16-OCT-2001 (Rel. 40, Created)  
DT 16-OCT-2001 (Rel. 40, Last sequence update)  
DT 15-MAR-2004 (Rel. 43, Last annotation update)

DE Tigerinin-1.  
 OS Hoplobatrachus tigerinus (Indian bull frog) (Rana tigerina).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae;  
 OC Hoplobatrachus.  
 OX NCBI\_TaxID=103373;  
 RN [1]  
 RP SEQUENCE, FUNCTION, MASS SPECTROMETRY, AND DISULFIDE BONDS.  
 RC TISSUE=Skin secretion;  
 RX PubMed=11031261;  
 RA Purna Sai K., Jaganadham M.V., Vairamani M., Raju N.P.,  
 RA Devi A.S., Nagaraj R., Sitaram N.;  
 RT "Tigerinins: novel antimicrobial peptides from the Indian frog Rana  
 RT tigerina.";  
 RL J. Biol. Chem. 276:2701-2707(2001).  
 CC -!- FUNCTION: Antibacterial activity against B.subtilis, E.coli,  
 CC S.aureus, M.luteus, P.putida and S.cerevisiae.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin.  
 CC -!- MASS SPECTROMETRY: MW=1342; METHOD=MALDI.  
 KW Amphibian defense peptide; Antibiotic; Fungicide; Amidation.  
 FT DISULFID 2 10  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1344 MW; A2087DC960476056 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
 |  
 Db 9 R 9

# RESULT 58

TIN4\_HOPTI  
 ID TIN4\_HOPTI STANDARD; PRT; 11 AA.  
 AC P82654;  
 DT 16-OCT-2001 (Rel. 40, Created)  
 DT 16-OCT-2001 (Rel. 40, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Tigerinin-4.  
 OS Hoplobatrachus tigerinus (Indian bull frog) (Rana tigerina).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae;  
 OC Hoplobatrachus.  
 OX NCBI\_TaxID=103373;  
 RN [1]  
 RP SEQUENCE, FUNCTION, MASS SPECTROMETRY, AND DISULFIDE BONDS.  
 RC TISSUE=Skin secretion;  
 RX PubMed=11031261;  
 RA Purna Sai K., Jaganadham M.V., Vairamani M., Raju N.P.,  
 RA Devi A.S., Nagaraj R., Sitaram N.;  
 RT "Tigerinins: novel antimicrobial peptides from the Indian frog Rana  
 RT tigerina.";  
 RL J. Biol. Chem. 276:2701-2707(2001).  
 CC -!- FUNCTION: Antibacterial activity against B.subtilis, E.coli,

CC S.aureus, M.luteus, P.putida and S.cerevisiae.  
CC -!- SUBCELLULAR LOCATION: Secreted.  
CC -!- TISSUE SPECIFICITY: Skin.  
CC -!- MASS SPECTROMETRY: MW=1247; METHOD=MALDI.  
KW Amphibian defense peptide; Antibiotic.  
FT DISULFID 3 11  
SQ SEQUENCE 11 AA; 1248 MW; 117D8EFD37605DCB CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
|  
Db 1 R 1

RESULT 59

TKC2\_CALVO

ID TKC2\_CALVO STANDARD; PRT; 11 AA.  
AC P41518;  
DT 01-NOV-1995 (Rel. 32, Created)  
DT 01-NOV-1995 (Rel. 32, Last sequence update)  
DT 10-OCT-2003 (Rel. 42, Last annotation update)  
DE Callitachykinin II.  
OS Calliphora vomitoria (Blue blowfly).  
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;  
OC Calliphoridae; Calliphora.  
OX NCBI\_TaxID=27454;  
RN [1]  
RP SEQUENCE, AND SYNTHESIS.  
RX MEDLINE=95075727; PubMed=7984492;  
RA Lundquist C.T., Clottens F.L., Holman G.M., Nichols R., Nachman R.J.,  
RA Naessel D.R.;  
RT "Callitachykinin I and II, two novel myotropic peptides isolated from  
RT the blowfly, Calliphora vomitoria, that have resemblances to  
RT tachykinins.";  
RL Peptides 15:761-768(1994).  
CC -!- FUNCTION: Myoactive peptide.  
CC -!- SUBCELLULAR LOCATION: Secreted.  
CC -!- SIMILARITY: SOME SIMILARITY TO TACHYKININS.  
KW Tachykinin; Neuropeptide; Amidation.  
FT MOD\_RES 11 11 AMIDATION.  
SQ SEQUENCE 11 AA; 1103 MW; 15D7E3F9C9CDD444 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 G 7  
|  
Db 1 G 1

RESULT 60

TKN1\_PSEGU

ID TKN1\_PSEGU STANDARD; PRT; 11 AA.  
AC P42986;  
DT 01-NOV-1995 (Rel. 32, Created)  
DT 01-NOV-1995 (Rel. 32, Last sequence update)  
DT 10-OCT-2003 (Rel. 42, Last annotation update)  
DE Kassinin-like peptide K-I (PG-KI).  
OS Pseudophryne guentheri (Guenther's toadlet).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Myobatrachidae;  
OC Myobatrachinae; Pseudophryne.  
OX NCBI\_TaxID=30349;  
RN [1]  
RP SEQUENCE.  
RC TISSUE=Skin secretion;  
RX MEDLINE=90287814; PubMed=2356157;  
RA Simmaco M., Severini C., de Biase D., Barra D., Bossa F.,  
RA Roberts J.D., Melchiorri P., Erspamer V.;  
RT "Six novel tachykinin- and bombesin-related peptides from the skin of  
RT the Australian frog Pseudophryne guentheri.";  
RL Peptides 11:299-304(1990).  
CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
CC evoke behavioral responses, are potent vasodilators and  
CC secretagogues, and contract (directly or indirectly) many smooth  
CC muscles.  
CC -!- SUBCELLULAR LOCATION: Secreted.  
CC -!- TISSUE SPECIFICITY: Skin.  
CC -!- SIMILARITY: Belongs to the tachykinin family.  
DR PIR; B60409; B60409.  
DR InterPro; IPR002040; Tachy\_Neurokinin.  
DR InterPro; IPR008215; Tachykinin.  
DR Pfam; PF02202; Tachykinin; 1.  
DR SMART; SM00203; TK; 1.  
DR PROSITE; PS00267; TACHYKININ; 1.  
KW Amphibian defense peptide; Tachykinin; Neuropeptide; Amidation;  
KW Pyrrolidone carboxylic acid.  
FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
FT MOD\_RES 11 11 AMIDATION.  
SQ SEQUENCE 11 AA; 1269 MW; 3DBA7C37C9CB1AB7 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 L 4  
|  
Db 10 L 10

# RESULT 61

TKN1\_UPEIN

ID TKN1\_UPEIN STANDARD; PRT; 11 AA.  
AC P82026;  
DT 30-MAY-2000 (Rel. 39, Created)  
DT 30-MAY-2000 (Rel. 39, Last sequence update)  
DT 10-OCT-2003 (Rel. 42, Last annotation update)  
DE Uperin 1.1.  
OS Uperoleia inundata (Floodplain toadlet).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Myobatrachidae;  
 OC Myobatrachinae; Uperoleia.  
 OX NCBI\_TaxID=104953;  
 RN [1]  
 RP SEQUENCE, AND MASS SPECTROMETRY.  
 RC TISSUE=Skin secretion;  
 RA Bradford A.M., Raftery M.J., Bowie J.H., Tyler M.J., Wallace J.C.,  
 RA Adams G.W., Severini C.;  
 RT "Novel uperin peptides from the dorsal glands of the australian  
 RT floodplain toadlet Uperoleia inundata.";  
 RL Aust. J. Chem. 49:475-484(1996).  
 CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
 CC evoke behavioral responses, are potent vasodilators and  
 CC secretagogues, and contract (directly or indirectly) many smooth  
 CC muscles.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin dorsal glands.  
 CC -!- MASS SPECTROMETRY: MW=1208; METHOD=FAB.  
 CC -!- SIMILARITY: Belongs to the tachykinin family.  
 DR InterPro; IPR002040; Tachy\_Neurokinin.  
 DR Pfam; PF02202; Tachykinin; 1.  
 DR PROSITE; PS00267; TACHYKININ; 1.  
 KW Amphibian defense peptide; Tachykinin; Neuropeptide; Amidation;  
 KW Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1226 MW; 3293693E59CDD457 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 A 1  
 |  
 Db 2 A 2

#### RESULT 62

TKN1\_UPERU

ID TKN1\_UPERU STANDARD; PRT; 11 AA.  
 AC P08612;  
 DT 01-AUG-1988 (Rel. 08, Created)  
 DT 01-FEB-1994 (Rel. 28, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Uperolein.  
 OS Uperoleia rugosa (Wrinkled toadlet).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Myobatrachidae;  
 OC Myobatrachinae; Uperoleia.  
 OX NCBI\_TaxID=8368;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Skin secretion;  
 RX MEDLINE=75131227; PubMed=1120493;  
 RA Anastasi A., Erspamer V., Endean R.;  
 RT "Structure of uperolein, a physalaemin-like endecapeptide occurring

RT in the skin of *Uperoleia rugosa* and *Uperoleia marmorata*.";  
 RL Experientia 31:394-395(1975).  
 CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
 CC evoke behavioral responses, are potent vasodilators and  
 CC secretagogues, and contract (directly or indirectly) many smooth  
 CC muscles.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin.  
 CC -!- SIMILARITY: Belongs to the tachykinin family.  
 DR InterPro; IPR002040; Tachy\_Neurokinin.  
 DR InterPro; IPR008215; Tachykinin.  
 DR Pfam; PF02202; Tachykinin; 1.  
 DR SMART; SM00203; TK; 1.  
 DR PROSITE; PS00267; TACHYKININ; 1.  
 KW Amphibian defense peptide; Tachykinin; Neuropeptide; Amidation;  
 KW Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1252 MW; 32867C3E59CDD457 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 P 10  
 |  
 Db 2 P 2

# RESULT 63

## TKN2\_PSEGU

ID TKN2\_PSEGU STANDARD; PRT; 11 AA.  
 AC P42987;  
 DT 01-NOV-1995 (Rel. 32, Created)  
 DT 01-NOV-1995 (Rel. 32, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Kassinin-like peptide K-II (PG-KII).  
 OS Pseudophryne guentheri (Guenther's toadlet).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Myobatrachidae;  
 OC Myobatrachinae; Pseudophryne.  
 OX NCBI\_TaxID=30349;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Skin secretion;  
 RX MEDLINE=90287814; PubMed=2356157;  
 RA Simmaco M., Severini C., de Biase D., Barra D., Bossa F.,  
 RA Roberts J.D., Melchiorri P., Erspamer V.;  
 RT "Six novel tachykinin- and bombesin-related peptides from the skin of  
 RT the Australian frog *Pseudophryne guentheri*.";  
 RL Peptides 11:299-304(1990).  
 CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
 CC evoke behavioral responses, are potent vasodilators and  
 CC secretagogues, and contract (directly or indirectly) many smooth  
 CC muscles.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin.



CC -!- SIMILARITY: Belongs to the tachykinin family.  
 DR PIR; C60409; C60409.  
 DR InterPro; IPR002040; Tachy\_Neurokinin.  
 DR InterPro; IPR008215; Tachykinin.  
 DR Pfam; PF02202; Tachykinin; 1.  
 DR SMART; SM00203; TK; 1.  
 DR PROSITE; PS00267; TACHYKININ; 1.  
 KW Amphibian defense peptide; Tachykinin; Neuropeptide; Amidation;  
 KW Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1246 MW; 3A247C37C9CB1AB7 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 N 5  
 |  
 Db 3 N 3

#### RESULT 64

##### TKN3\_PSEGU

ID TKN3\_PSEGU STANDARD; PRT; 11 AA.  
 AC P42988;  
 DT 01-NOV-1995 (Rel. 32, Created)  
 DT 01-NOV-1995 (Rel. 32, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Kassinin-like peptide K-III (PG-KIII).  
 OS Pseudophryne guentheri (Guenther's toadlet).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Myobatrachidae;  
 OC Myobatrachinae; Pseudophryne.  
 OX NCBI\_TaxID=30349;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Skin secretion;  
 RX MEDLINE=90287814; PubMed=2356157;  
 RA Simmaco M., Severini C., de Biase D., Barra D., Bossa F.,  
 RA Roberts J.D., Melchiorri P., Erspamer V.;  
 RT "Six novel tachykinin- and bombesin-related peptides from the skin of  
 RT the Australian frog Pseudophryne guntheri.";  
 RL Peptides 11:299-304(1990).  
 CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
 CC evoke behavioral responses, are potent vasodilators and  
 CC secretagogues, and contract (directly or indirectly) many smooth  
 CC muscles.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin.  
 CC -!- SIMILARITY: Belongs to the tachykinin family.  
 DR PIR; D60409; D60409.  
 DR InterPro; IPR002040; Tachy\_Neurokinin.  
 DR InterPro; IPR008215; Tachykinin.  
 DR Pfam; PF02202; Tachykinin; 1.  
 DR SMART; SM00203; TK; 1.  
 DR PROSITE; PS00267; TACHYKININ; 1.

KW Amphibian defense peptide; Tachykinin; Neuropeptide; Amidation;  
 KW Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1268 MW; 3DBA7C37C9CB1457 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 N 5  
 |  
 Db 5 N 5

# RESULT 65

TKN4\_PSEGU

ID TKN4\_PSEGU STANDARD; PRT; 11 AA.  
 AC P42989;  
 DT 01-NOV-1995 (Rel. 32, Created)  
 DT 01-NOV-1995 (Rel. 32, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Substance P-like peptide I (PG-SPI).  
 OS Pseudophryne guentheri (Guenther's toadlet).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Myobatrachidae;  
 OC Myobatrachinae; Pseudophryne.  
 OX NCBI\_TaxID=30349;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Skin secretion;  
 RX MEDLINE=90287814; PubMed=2356157;  
 RA Simmaco M., Severini C., de Biase D., Barra D., Bossa F.,  
 RA Roberts J.D., Melchiorri P., Erspamer V.;  
 RT "Six novel tachykinin- and bombesin-related peptides from the skin of  
 RT the Australian frog Pseudophryne guntheri.";  
 RL Peptides 11:299-304(1990).  
 CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
 CC evoke behavioral responses, are potent vasodilators and  
 CC secretagogues, and contract (directly or indirectly) many smooth  
 CC muscles.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin.  
 CC -!- SIMILARITY: Belongs to the tachykinin family.  
 DR PIR; E60409; E60409.  
 DR InterPro; IPR002040; Tachy\_Neurokinin.  
 DR InterPro; IPR008215; Tachykinin.  
 DR Pfam; PF02202; Tachykinin; 1.  
 DR SMART; SM00203; TK; 1.  
 DR PROSITE; PS00267; TACHYKININ; 1.  
 KW Amphibian defense peptide; Tachykinin; Neuropeptide; Amidation;  
 KW Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1294 MW; 3A247C2CC9CB1AB7 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;

Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 N 5  
|  
Db 3 N 3

RESULT 66

TKN5\_PSEGU

ID TKN5\_PSEGU STANDARD; PRT; 11 AA.  
AC P42990;  
DT 01-NOV-1995 (Rel. 32, Created)  
DT 01-NOV-1995 (Rel. 32, Last sequence update)  
DT 10-OCT-2003 (Rel. 42, Last annotation update)  
DE Substance P-like peptide II (PG-SPII).  
OS Pseudophryne guentheri (Guenther's toadlet).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Myobatrachidae;  
OC Myobatrachinae; Pseudophryne.  
OX NCBI\_TaxID=30349;  
RN [1]  
RP SEQUENCE.  
RC TISSUE=Skin secretion;  
RX MEDLINE=90287814; PubMed=2356157;  
RA Simmaco M., Severini C., de Biase D., Barra D., Bossa F.,  
RA Roberts J.D., Melchiorri P., Erspamer V.;  
RT "Six novel tachykinin- and bombesin-related peptides from the skin of  
RT the Australian frog Pseudophryne guentheri.";  
RL Peptides 11:299-304(1990).  
CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
CC evoke behavioral responses, are potent vasodilators and  
CC secretagogues, and contract (directly or indirectly) many smooth  
CC muscles.  
CC -!- SUBCELLULAR LOCATION: Secreted.  
CC -!- TISSUE SPECIFICITY: Skin.  
CC -!- SIMILARITY: Belongs to the tachykinin family.  
DR PIR; F60409; F60409.  
DR InterPro; IPR002040; Tachy\_Neurokinin.  
DR InterPro; IPR008215; Tachykinin.  
DR Pfam; PF02202; Tachykinin; 1.  
DR SMART; SM00203; TK; 1.  
DR PROSITE; PS00267; TACHYKININ; 1.  
KW Amphibian defense peptide; Tachykinin; Neuropeptide; Amidation;  
KW Pyrrolidone carboxylic acid.  
FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
FT MOD\_RES 11 11 AMIDATION.  
SQ SEQUENCE 11 AA; 1293 MW; 3A247C2CC9CB1457 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 N 5  
|  
Db 3 N 3

RESULT 67

TKNA\_CHICK

ID TKNA\_CHICK STANDARD; PRT; 11 AA.  
 AC P19850;  
 DT 01-FEB-1991 (Rel. 17, Created)  
 DT 01-FEB-1991 (Rel. 17, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Substance P.  
 OS Gallus gallus (Chicken).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;  
 OC Gallus.  
 OX NCBI\_TaxID=9031;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Intestine;  
 RX MEDLINE=88204263; PubMed=2452461;  
 RA Conlon J.M., Katsoulis S., Schmidt W.E., Thim L.;  
 RT "[Arg3]substance P and neurokinin A from chicken small intestine."  
 RL Regul. Pept. 20:171-180(1988).  
 CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
 CC evoke behavioral responses, are potent vasodilators and  
 CC secretagogues, and contract (directly or indirectly) many smooth  
 CC muscles.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- SIMILARITY: Belongs to the tachykinin family.  
 DR PIR; JN0023; JN0023.  
 DR InterPro; IPR002040; Tachy\_Neurokinin.  
 DR Pfam; PF02202; Tachykinin; 1.  
 DR PROSITE; PS00267; TACHYKININ; 1.  
 KW Tachykinin; Neuropeptide; Amidation; Neurotransmitter.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1377 MW; 21487FE3C9D6C6C7 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 R 2  
 |  
 Db 1 R 1

RESULT 68

TKN\_ELEMO

ID TKN\_ELEMO STANDARD; PRT; 11 AA.  
 AC P01293;  
 DT 21-JUL-1986 (Rel. 01, Created)  
 DT 01-FEB-1994 (Rel. 28, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Eledoisin.  
 OS Eledone moschata (Musky octopus) (Ozaena moschata), and  
 OS Eledone cirrhosa (Curled octopus) (Ozaena cirrosa).  
 OC Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea;  
 OC Octopodiformes; Octopoda; Incirrata; Octopodidae; Eledone.  
 OX NCBI\_TaxID=6641, 102876;

RN [1]  
 RP SEQUENCE.  
 RA Anastasi A., Erspamer V.;  
 RT "The isolation and amino acid sequence of eledoisin, the active  
 RT endecapeptide of the posterior salivary glands of Eledone.";  
 RL Arch. Biochem. Biophys. 101:56-65(1963).  
 CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
 CC evoke behavioral responses, are potent vasodilators and  
 CC secretagogues, and contract (directly or indirectly) many smooth  
 CC muscles.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin.  
 CC -!- SIMILARITY: Belongs to the tachykinin family.  
 DR PIR; A01561; EOOC.  
 DR PIR; B01561; EOCC.  
 DR PDB; 1MXQ; 18-FEB-03.  
 DR InterPro; IPR002040; Tachy\_Neurokinin.  
 DR PROSITE; PS00267; TACHYKININ; 1.  
 KW Tachykinin; Neuropeptide; Amidation; Pyrrolidone carboxylic acid;  
 KW 3D-structure.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1206 MW; 570D7C2559CDDAA3 CRC64;  
  
 Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
 Qy 10 P 10  
 |  
 Db 2 P 2

RESULT 69  
 TKN\_PHYFU  
 ID TKN\_PHYFU STANDARD; PRT; 11 AA.  
 AC P08615;  
 DT 01-AUG-1988 (Rel. 08, Created)  
 DT 01-FEB-1994 (Rel. 28, Last sequence update)  
 DT 10-OCT-2003 (Rel. 42, Last annotation update)  
 DE Physalaemin.  
 OS Physalaemus fuscumaculatus (Neotropical frog).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Leptodactylidae;  
 OC Leptodactylinae; Physalaemus.  
 OX NCBI\_TaxID=8378;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Skin secretion;  
 RX MEDLINE=66076612; PubMed=5857249;  
 RA Erspamer V., Anastasi A., Bertaccini G., Cei J.M.;  
 RT "Structure and pharmacological actions of physalaemin, the main  
 RT active polypeptide of the skin of Physalaemus fuscumaculatus.";  
 RL Experientia 20:489-490(1964).  
 CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,  
 CC evoke behavioral responses, are potent vasodilators and  
 CC secretagogues, and contract (directly or indirectly) many smooth

CC muscles.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- TISSUE SPECIFICITY: Skin.  
 CC -!- SIMILARITY: Belongs to the tachykinin family.  
 DR PIR; S07201; S07201.  
 DR InterPro; IPR002040; Tachy\_Neurokinin.  
 DR Pfam; PF02202; Tachykinin; 1.  
 DR PROSITE; PS00267; TACHYKININ; 1.  
 KW Amphibian defense peptide; Tachykinin; Neuropeptide; Amidation;  
 KW Pyrrolidone carboxylic acid.  
 FT MOD\_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.  
 FT MOD\_RES 11 11 AMIDATION.  
 SQ SEQUENCE 11 AA; 1283 MW; 3293693E59C33457 CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 A 1  
 |  
 Db 2 A 2

# RESULT 70

## UF05\_MOUSE

ID UF05\_MOUSE STANDARD; PRT; 11 AA.  
 AC P38643;  
 DT 01-OCT-1994 (Rel. 30, Created)  
 DT 01-OCT-1994 (Rel. 30, Last sequence update)  
 DT 15-MAR-2004 (Rel. 43, Last annotation update)  
 DE Unknown protein from 2D-page of fibroblasts (P48) (Fragment).  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE.  
 RC TISSUE=Fibroblast;  
 RX MEDLINE=95009907; PubMed=7523108;  
 RA Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk J.K.;  
 RT "Separation and sequencing of familiar and novel murine proteins  
 using preparative two-dimensional gel electrophoresis.";  
 RL Electrophoresis 15:735-745(1994).  
 CC -!- MISCELLANEOUS: On the 2D-gel the determined pI of this unknown  
 CC protein is: 5.5, its MW is: 48 kDa.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1328 MW; E54835E5CAAABAFa CRC64;

Query Match 9.1%; Score 1; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 L 4  
 |  
 Db 11 L 11

Search completed: April 8, 2004, 15:47:19  
Job time : 5.15385 secs

OM protein - protein search, using sw model

Run on: April 8, 2004, 15:30:07 ; Search time 27.7692 Seconds  
(without alignments)  
124.984 Million cell updates/sec

Title: US-09-787-443A-3  
Perfect score: 11  
Sequence: 1 ARALNWGAKPK 11

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 1017041 seqs, 315518202 residues

Word size : 0

Total number of hits satisfying chosen parameters: 460

Minimum DB seq length: 11

Maximum DB seq length: 11

Post-processing: Listing first 100 summaries

Database : SPTREMBL\_25:\*  
1: sp\_archaea:\*  
2: sp\_bacteria:\*  
3: sp\_fungi:\*  
4: sp\_human:\*  
5: sp\_invertebrate:\*  
6: sp\_mammal:\*  
7: sp\_mhc:\*  
8: sp\_organelle:\*  
9: sp\_phage:\*  
10: sp\_plant:\*  
11: sp\_rodent:\*  
12: sp\_virus:\*  
13: sp\_vertibrate:\*  
14: sp\_unclassified:\*  
15: sp\_rvirus:\*  
16: sp\_bacteriap:\*  
17: sp\_archeap:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

§

Result	Query					
No.	Score	Match	Length	DB	ID	Description
-----						



1	3	27.3	11	4	Q8TDA8	Q8tda8	homo sapien
2	3	27.3	11	5	Q9TWX6	Q9twx6	manduca sex
3	3	27.3	11	5	Q23876	Q23876	dictyosteli
4	3	27.3	11	6	Q9TQS9	Q9tqs9	equus cabal
5	3	27.3	11	11	Q9QVH3	Q9qvh3	rattus sp.
6	2	18.2	11	2	O68237	O68237	borrelia bu
7	2	18.2	11	2	Q9AIZ7	Q9aiz7	carsonella
8	2	18.2	11	2	Q8RKN1	Q8rkn1	escherichia
9	2	18.2	11	2	Q8KHL0	Q8khl0	streptococc
10	2	18.2	11	2	Q9R4B1	Q9r4b1	streptococc
11	2	18.2	11	2	Q9S618	Q9s618	prochloroco
12	2	18.2	11	2	Q9EUZ3	Q9euz3	escherichia
13	2	18.2	11	2	Q47600	Q47600	escherichia
14	2	18.2	11	2	O87882	O87882	mycobacteri
15	2	18.2	11	2	Q9RFZ2	Q9rfz2	mycoplasma
16	2	18.2	11	2	P95518	P95518	pasteurella
17	2	18.2	11	2	Q47604	Q47604	escherichia
18	2	18.2	11	2	Q47345	Q47345	escherichia
19	2	18.2	11	2	Q47420	Q47420	escherichia
20	2	18.2	11	2	Q8KRA1	Q8kra1	streptococc
21	2	18.2	11	2	Q56413	Q56413	escherichia
22	2	18.2	11	2	Q47059	Q47059	escherichia
23	2	18.2	11	2	Q9R446	Q9r446	neisseria g
24	2	18.2	11	2	Q8GMU3	Q8gmu3	acinetobact
25	2	18.2	11	2	Q9X9S6	Q9x9s6	streptomyce
26	2	18.2	11	2	Q7X566	Q7x566	thermus the
27	2	18.2	11	3	O60005	O60005	aspergillus
28	2	18.2	11	3	O60007	O60007	emericeella
29	2	18.2	11	3	O60192	O60192	aspergillus
30	2	18.2	11	3	Q9C1R7	Q9clr7	saccharomyc
31	2	18.2	11	3	O60006	O60006	aspergillus
32	2	18.2	11	4	O60614	O60614	homo sapien
33	2	18.2	11	4	Q14759	Q14759	homo sapien
34	2	18.2	11	4	Q9UCP2	Q9ucp2	homo sapien
35	2	18.2	11	4	Q9NY38	Q9ny38	homo sapien
36	2	18.2	11	4	O60761	O60761	homo sapien
37	2	18.2	11	4	O75811	O75811	homo sapien
38	2	18.2	11	4	Q15997	Q15997	homo sapien
39	2	18.2	11	4	Q96QF8	Q96qf8	homo sapien
40	2	18.2	11	4	Q9UCP5	Q9ucp5	homo sapien
41	2	18.2	11	4	Q9UE69	Q9ue69	homo sapien
42	2	18.2	11	4	Q9HCN5	Q9hcn5	homo sapien
43	2	18.2	11	5	Q26092	Q26092	pisaster oc
44	2	18.2	11	5	Q9NFX0	Q9nfx0	drosophila
45	2	18.2	11	5	Q86D32	Q86d32	trypanosoma
46	2	18.2	11	5	Q86D31	Q86d31	trypanosoma
47	2	18.2	11	5	Q95PX6	Q95px6	caenorhabdi
48	2	18.2	11	6	Q95J20	Q95j20	eulemur ful
49	2	18.2	11	6	Q95NB6	Q95nb6	eulemur ful
50	2	18.2	11	6	Q95J19	Q95j19	eulemur ful
51	2	18.2	11	7	O77914	O77914	oreochromis
52	2	18.2	11	7	Q9UEX7	Q9uex7	homo sapien
53	2	18.2	11	7	O78118	O78118	oreochromis
54	2	18.2	11	7	O77872	O77872	oreochromis
55	2	18.2	11	7	O78120	O78120	oreochromis
56	2	18.2	11	7	O77873	O77873	oreochromis
57	2	18.2	11	7	O77871	O77871	oreochromis

58	2	18.2	11	8	Q9G622	Q9g622	salea horsf
59	2	18.2	11	8	Q95EI4	Q95ei4	dendrochilu
60	2	18.2	11	8	Q9G359	Q9g359	japalura fl
61	2	18.2	11	8	Q9G649	Q9g649	otocryptis
62	2	18.2	11	8	Q9G5Z8	Q9g5z8	acanthosaur
63	2	18.2	11	8	Q94VH7	Q94vh7	varanus gil
64	2	18.2	11	8	Q9G619	Q9g619	ceratophora
65	2	18.2	11	8	Q8WER7	Q8wer7	ceratophora
66	2	18.2	11	8	Q8WD50	Q8wd50	ceratophora
67	2	18.2	11	8	Q35374	Q35374	paramecium
68	2	18.2	11	8	Q9G5X1	Q9g5x1	trapelus pe
69	2	18.2	11	8	Q8WER4	Q8wer4	ceratophora
70	2	18.2	11	8	Q9G682	Q9g682	chelosania
71	2	18.2	11	8	Q9G655	Q9g655	japalura tr
72	2	18.2	11	8	Q9G637	Q9g637	calotes lio
73	2	18.2	11	8	Q7Y9C8	Q7y9c8	tympanocryp
74	2	18.2	11	9	Q38415	Q38415	bacteriopha
75	2	18.2	11	10	Q06626	Q06626	solanum tub
76	2	18.2	11	10	O65901	O65901	leavenworth
77	2	18.2	11	10	Q8RV30	Q8rv30	zea mays (m
78	2	18.2	11	10	Q9S8X4	Q9s8x4	glycine max
79	2	18.2	11	10	Q39784	Q39784	gossypium h
80	2	18.2	11	10	Q9T0L9	Q9t0l9	brassica ol
81	2	18.2	11	10	Q94IR5	Q94ir5	pinus radia
82	2	18.2	11	11	Q99JC3	Q99jc3	rattus sp.
83	2	18.2	11	11	Q9QXM6	Q9qxm6	mus musculu
84	2	18.2	11	11	Q99N81	Q99n81	mus musculu
85	2	18.2	11	11	Q9JLE6	Q9jle6	rattus norv
86	2	18.2	11	11	Q9Z1H5	Q9z1h5	mus musculu
87	2	18.2	11	11	Q80WI1	Q80wi1	mus sp. nt-
88	2	18.2	11	12	Q86866	Q86866	lymphocytic
89	2	18.2	11	12	Q83083	Q83083	leucania se
90	2	18.2	11	12	Q86868	Q86868	lymphocytic
91	2	18.2	11	12	Q66874	Q66874	feline cali
92	2	18.2	11	12	Q84247	Q84247	polyomaviru
93	2	18.2	11	13	Q9PST1	Q9pst1	fugu rubrip
94	2	18.2	11	13	Q8AX69	Q8ax69	oreochromis
95	2	18.2	11	13	Q8AX68	Q8ax68	oreochromis
96	2	18.2	11	13	Q800X7	Q800x7	chelydra se
97	2	18.2	11	15	Q83410	Q83410	mouse mamma
98	2	18.2	11	15	Q85620	Q85620	moloney mur
99	1	9.1	11	2	Q9AIY6	Q9aiy6	carsonella
100	1	9.1	11	2	Q9R790	Q9r790	borrelia ga

#### ALIGNMENTS

##### RESULT 1

Q8TDA8

ID Q8TDA8 PRELIMINARY; PRT; 11 AA.

AC Q8TDA8;

DT 01-JUN-2002 (TrEMBLrel. 21, Created)

DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)

DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)

DE Glutathione synthetase (Fragment).

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Cho Y.-W., Lee Y.-Y., Lim C.-J.;  
 RT "Cloning and characterization of glutathione synthetase gene from  
 RT human placenta DNA.";  
 RL Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases.  
 DR EMBL; AF485789; AAL91591.1; -.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1235 MW; 1CE28D1E35B86374 CRC64;

Query Match 27.3%; Score 3; DB 4; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.7e+03;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 NWG 7  
 |||  
 Db 4 NWG 6

## RESULT 2

### Q9TWX6

ID Q9TWX6 PRELIMINARY; PRT; 11 AA.  
 AC Q9TWX6;  
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
 DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)  
 DE Juvenile hormone binding protein, JHBP=12.5 kDa CNBR peptide  
 DE (Fragment).  
 OS Manduca sexta (Tobacco hawkmoth) (Tobacco hornworm).  
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
 OC Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia; Sphingioidea;  
 OC Sphingidae; Sphinginae; Manduca.  
 OX NCBI\_TaxID=7130;  
 RN [1]  
 RP SEQUENCE.  
 RX MEDLINE=92134256; PubMed=1734862;  
 RA Touhara K., Prestwich G.D.;  
 RT "Binding site mapping of a photoaffinity-labeled juvenile hormone  
 RT binding protein.";  
 RL Biochem. Biophys. Res. Commun. 182:466-473(1992).  
 FT NON\_TER 1 1  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1071 MW; D232A98E705045BD CRC64;

Query Match 27.3%; Score 3; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 8.7e+03;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GAK 9  
 |||  
 Db 9 GAK 11

## RESULT 3

Q23876

ID Q23876 PRELIMINARY; PRT; 11 AA.  
AC Q23876;  
DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
DT 01-NOV-1998 (TrEMBLrel. 08, Last annotation update)  
DE Actin 4.  
OS Dictyostelium discoideum (Slime mold).  
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.  
OX NCBI\_TaxID=44689;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=82260445; PubMed=6286214;  
RA McKeown M., Firtel R.A.;  
RT "Actin multigene family of Dictyostelium.";  
RL Cold Spring Harb. Symp. Quant. Biol. 46:495-505(1982).  
DR EMBL; K02957; AAA33150.1; -.  
DR EMBL; K02956; AAA33150.1; JOINED.  
SQ SEQUENCE 11 AA; 1205 MW; 728B4C14C6C2CAAB CRC64;

Query Match 27.3%; Score 3; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.7e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 ALN 5  
|||  
Db 8 ALN 10

RESULT 4

Q9TQS9

ID Q9TQS9 PRELIMINARY; PRT; 11 AA.  
AC Q9TQS9;  
DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
DT 01-MAY-2000 (TrEMBLrel. 13, Last annotation update)  
DE Transferrin (Fragment).  
OS Equus caballus (Horse).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Perissodactyla; Equidae; Equus.  
OX NCBI\_TaxID=9796;  
RN [1]  
RP SEQUENCE FROM N.A.  
RA Giffard J.M., Brandon R.B., Bell T.K.;  
RT "Further identification of single nucleotide polymorphisms in the  
RT equine transferrin gene.";  
RL Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.  
DR EMBL; AF185800; AAF05495.1; -.  
DR EMBL; AF185797; AAF05492.1; -.  
DR EMBL; AF185798; AAF05493.1; -.  
DR EMBL; AF185799; AAF05494.1; -.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1231 MW; C586121E2DC4005D CRC64;

Query Match 27.3%; Score 3; DB 6; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.7e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RAL 4  
|||  
Db 6 RAL 8

RESULT 5

Q9QVH3

ID Q9QVH3 PRELIMINARY; PRT; 11 AA.  
AC Q9QVH3;  
DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)  
DE Chromogranin-B, CGB=GLUCAGONOMA peptide (Fragment).  
OS Rattus sp.  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
OX NCBI\_TaxID=10118;  
RN [1]  
RP SEQUENCE.  
RX MEDLINE=92063871; PubMed=1954895;  
RA Nielsen E., Welinder B.S., Madsen O.D.;  
RT "Chromogranin-B, a putative precursor of eight novel rat glucagonoma  
RT peptides through processing at mono-, di-, or tribasic residues.";  
RL Endocrinology 129:3147-3156(1991).  
DR InterPro; IPR001990; Granin.  
DR Pfam; PF01271; Granin; 1.  
FT NON\_TER 1 1  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1342 MW; 6C82C3737452CAAB CRC64;

Query Match 27.3%; Score 3; DB 11; Length 11;  
Best Local Similarity 100.0%; Pred. No. 8.7e+03;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 NWG 7  
|||  
Db 7 NWG 9

RESULT 6

O68237

ID O68237 PRELIMINARY; PRT; 11 AA.  
AC O68237;  
DT 01-AUG-1998 (TrEMBLrel. 07, Created)  
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)  
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
DE Plasmid cp32-4, possible partition proteins (Fragment).  
OS Borrelia burgdorferi (Lyme disease spirochete).  
OG Plasmid cp32-4.  
OC Bacteria; Spirochaetes; Spirochaetales; Spirochaetaceae; Borrelia.  
OX NCBI\_TaxID=139;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=B31;  
RX MEDLINE=98361033; PubMed=9695920;  
RA Stevenson B., Casjens S., Rosa P.;

RT "Evidence of past recombination events among the genes encoding the  
 RT Erp antigens of *Borrelia burgdorferi*.";  
 RL Microbiology 144:1869-1879(1998).  
 DR EMBL; AF022481; AAC35449.1; -.  
 DR GO; GO:0046821; C:extrachromosomal DNA; IEA.  
 KW Plasmid.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1237 MW; 50E3B714D45B5DD7 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
 ||  
 Db 8 AL 9

# RESULT 7

Q9AIZ7

ID Q9AIZ7 PRELIMINARY; PRT; 11 AA.  
 AC Q9AIZ7;  
 DT 01-JUN-2001 (TrEMBLrel. 17, Created)  
 DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE Tryptophanyl-tRNA synthetase (Fragment).  
 GN TRPS.  
 OS *Carsonella ruddii*.  
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Candidatus *Carsonella*.  
 OX NCBI\_TaxID=114186;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=20336438; PubMed=10877784;  
 RA Thao M.L., Moran N.A., Abbot P., Brennan E.B., Burckhardt D.H.,  
 RA Baumann P.;  
 RT "Cospeciation of psyllids and their primary prokaryotic  
 RT endosymbionts.";  
 RL Appl. Environ. Microbiol. 66:2898-2905(2000).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=21125546; PubMed=11222582;  
 RA Clark M.A., Baumann L., Thao M.L., Moran N.A., Baumann P.;  
 RT "Degenerative Minimalism in the Genome of a Psyllid Endosymbiont.";  
 RL J. Bacteriol. 183:1853-1861(2001).  
 DR EMBL; AF211132; AAK15377.1; -.  
 DR GO; GO:0004812; F:tRNA ligase activity; IEA.  
 KW Aminoacyl-tRNA synthetase.  
 FT NON\_TER 1 1  
 SQ SEQUENCE 11 AA; 1333 MW; A28C67D6533059C6 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LN 5  
 ||  
 Db 2 LN 3

RESULT 8

Q8RKN1

ID Q8RKN1 PRELIMINARY; PRT; 11 AA.  
 AC Q8RKN1;  
 DT 01-JUN-2002 (TrEMBLrel. 21, Created)  
 DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)  
 DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)  
 DE Beta-lactamase CTX-M-9 (Fragment).  
 GN BLACTX-M-9.  
 OS Escherichia coli.  
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;  
 OC Enterobacteriaceae; Escherichia.  
 OX NCBI\_TaxID=562;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=743-D;  
 RA Sabate M., Navarro F., Miro E., Campoy S., Mirelis B., Barbe J.,  
 RA Prats G.;  
 RT "A novel complex sull-type integron in Escherichia coli carrying the  
 RT bla(CTX-M-9) gene."  
 RL Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.  
 DR EMBL; AY092058; AAM15718.1; -.  
 FT NON\_TER 1 1  
 SQ SEQUENCE 11 AA; 1071 MW; C26BF418D050440D CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
 ||  
 Db 4 AR 5

RESULT 9

Q8KHL0

ID Q8KHL0 PRELIMINARY; PRT; 11 AA.  
 AC Q8KHL0;  
 DT 01-OCT-2002 (TrEMBLrel. 22, Created)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)  
 DE Hypothetical protein (Fragment).  
 OS Streptococcus gallolyticus.  
 OC Bacteria; Firmicutes; Lactobacillales; Streptococcaceae;  
 OC Streptococcus.  
 OX NCBI\_TaxID=53354;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=4-C11, and 4-G10; TRANSPOSON=Tn5382-like;  
 RA Dahl K.H., Sundsfjord A.;  
 RT "vanB2 operons linked to Tn5382-like elements in Streptococcus strains  
 RT from veal calves."  
 RL Submitted (MAY-2001) to the EMBL/GenBank/DDBJ databases.  
 DR EMBL; AY035710; AAL07295.1; -.  
 DR EMBL; AY035711; AAL07297.1; -.

KW Hypothetical protein.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1329 MW; 93207414D1EEAB5E CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
||  
Db 8 AL 9

RESULT 10

Q9R4B1

ID Q9R4B1 PRELIMINARY; PRT; 11 AA.  
AC Q9R4B1;  
DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
DT 01-MAY-2000 (TrEMBLrel. 13, Last annotation update)  
DE BX protein (Fragment).  
OS Streptococcus pyogenes.  
OC Bacteria; Firmicutes; Lactobacillales; Streptococcaceae;  
OC Streptococcus.  
OX NCBI\_TaxID=1314;  
RN [1]  
RP SEQUENCE.  
RX MEDLINE=95252678; PubMed=7734831;  
RA Gerlach D., Gunther E., Kohler W., Vettermann S., Fleischer B.,  
RA Schmidt K.H.;  
RT "Isolation and characterization of a mitogen characteristic of group A  
RT streptococci (Streptococcus pyogenes).";  
RL Int. J. Med. Microbiol. Virol. Parasitol. Infect. Dis. 282:67-  
RL 82(1995).  
SQ SEQUENCE 11 AA; 1216 MW; CE527287CAA455A2 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LN 5  
||  
Db 10 LN 11

RESULT 11

Q9S618

ID Q9S618 PRELIMINARY; PRT; 11 AA.  
AC Q9S618;  
DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
DT 01-MAY-2000 (TrEMBLrel. 13, Last annotation update)  
DE Cytochrome b6/f complex subunit IV (Fragment).  
GN PETD.  
OS Prochlorococcus sp.  
OC Bacteria; Cyanobacteria; Prochlorophytes; Prochlorococcaceae;  
OC Prochlorococcus.



OX NCBI\_TaxID=1220;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Urbach E., Chisholm S.W.;  
 RT "Genetic diversity in *Prochlorococcus* populations flow cytometrically  
 RT sorted from the Sargasso Sea and Gulf Stream."  
 RL Limnol. Oceanog. 43:1615-1630(1998).  
 DR EMBL; AF070132; AAD20740.1; -.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1297 MW; 5CC38013B7633337 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10  
 ||  
 Db 6 KP 7

# RESULT 12

Q9EUZ3

ID Q9EUZ3 PRELIMINARY; PRT; 11 AA.  
 AC Q9EUZ3;  
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)  
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
 DT 01-MAR-2001 (TrEMBLrel. 16, Last annotation update)  
 DE Ribosome binding factor A (Fragment).  
 GN RBFA.  
 OS *Escherichia coli*.  
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;  
 OC Enterobacteriaceae; *Escherichia*.  
 OX NCBI\_TaxID=562;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=IQ490;  
 RA Hedegaard J., Kristensen J.E., Nakamura Y., Sperling-Petersen H.U.,  
 RA Mortensen K.K.;  
 RT "Sequence of the *infB* gene from *Escherichia coli* strain IQ489 and  
 RT IQ490."  
 RL Submitted (FEB-1999) to the EMBL/GenBank/DDBJ databases.  
 DR EMBL; AJ132862; CAC20133.1; -.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1319 MW; 6B234CFE740879CB CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AK 9  
 ||  
 Db 2 AK 3

# RESULT 13

Q47600

ID Q47600 PRELIMINARY; PRT; 11 AA.

AC Q47600;  
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
 DE REase protein (Fragment).  
 GN REASE.  
 OS Escherichia coli.  
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;  
 OC Enterobacteriaceae; Escherichia.  
 OX NCBI\_TaxID=562;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=91139577; PubMed=1995588;  
 RA Tao T., Bourne J.C., Blumenthal R.M.;  
 RT "A family of regulatory genes associated with type II restriction-  
 RT modification systems.";  
 RL J. Bacteriol. 173:1367-1375(1991).  
 DR EMBL; M63619; AAA24556.1; -.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1232 MW; 63175479572AB5A4 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
 ||  
 Db 10 AL 11

#### RESULT 14

O87882

ID O87882 PRELIMINARY; PRT; 11 AA.  
 AC O87882;  
 DT 01-NOV-1998 (TrEMBLrel. 08, Created)  
 DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)  
 DT 01-NOV-1998 (TrEMBLrel. 08, Last annotation update)  
 DE Alkyl hydroperoxide reductase (Fragment).  
 GN AHPC.  
 OS Mycobacterium xenopi.  
 OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;  
 OC Corynebacterineae; Mycobacteriaceae; Mycobacterium.  
 OX NCBI\_TaxID=1789;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=ATCC19250;  
 RX MEDLINE=98406038; PubMed=9733688;  
 RA Pagan-Ramos E., Song J., McFalone M., Mudd M.H., Deretic V.;  
 RT "Oxidative stress response and characterization of the oxyR-ahpC and  
 RT furA-katG loci in Mycobacterium marinum.";  
 RL J. Bacteriol. 180:4856-4864(1998).  
 DR EMBL; U43810; AAC61663.1; -.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1147 MW; 45458CE1787041A7 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;

Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
||  
Db 2 AL 3

RESULT 15

Q9RFZ2

ID Q9RFZ2 PRELIMINARY; PRT; 11 AA.  
AC Q9RFZ2;  
DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE Fructose biphosphate aldolase (Fragment).  
GN FBA.  
OS Mycoplasma mycoides subsp. capri.  
OC Bacteria; Firmicutes; Mollicutes; Mycoplasmataceae; Mycoplasma.  
OX NCBI\_TaxID=40477;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=PG3;  
RX MEDLINE=20193983; PubMed=10727835;  
RA Thiaucourt F., Lorenzon S., David A., Breard A.;  
RT "Phylogeny of the Mycoplasma mycoides cluster as shown by sequencing  
RT of a putative membrane protein gene."  
RL Vet. Microbiol. 72:251-268(2000).  
DR EMBL; AF162998; AAF15255.1; -.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1371 MW; 50B0881A3331FB57 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
||  
Db 2 PK 3

RESULT 16

P95518

ID P95518 PRELIMINARY; PRT; 11 AA.  
AC P95518;  
DT 01-MAY-1997 (TrEMBLrel. 03, Created)  
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE Ribosomal protein RpsA (Fragment).  
GN RPSA.  
OS Pasteurella haemolytica.  
OC Bacteria; Proteobacteria; Gammaproteobacteria; Pasteurellales;  
OC Pasteurellaceae; Mannheimia.  
OX NCBI\_TaxID=75985;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=PHL101;  
RX MEDLINE=97164347; PubMed=9011038;

RA Highlander S.K., Garza O., Brown B.J., Koby S., Oppenheim A.B.;  
 RT "Isolation and characterization of the integration host factor genes  
 RT of Pasteurella haemolytica.";  
 RL FEMS Microbiol. Lett. 146:181-188(1997).  
 DR EMBL; U56139; AAC44845.1; -.  
 FT NON\_TER 1 1  
 SQ SEQUENCE 11 AA; 1168 MW; 7A4BFD38D339CDDDB CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 AK 9  
 ||  
 Db 8 AK 9

#### RESULT 17

Q47604

ID Q47604 PRELIMINARY; PRT; 11 AA.  
 AC Q47604;  
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
 DE REase protein (Fragment).  
 GN REASE.  
 OS Escherichia coli.  
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;  
 OC Enterobacteriaceae; Escherichia.  
 OX NCBI\_TaxID=562;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=91139577; PubMed=1995588;  
 RA Tao T., Bourne J.C., Blumenthal R.M.;  
 RT "A family of regulatory genes associated with type II restriction-  
 RT modification systems.";  
 RL J. Bacteriol. 173:1367-1375(1991).  
 DR EMBL; M63621; AAA24560.1; -.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1296 MW; 3039A71A34472AB7 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 LN 5  
 ||  
 Db 6 LN 7

#### RESULT 18

Q47345

ID Q47345 PRELIMINARY; PRT; 11 AA.  
 AC Q47345;  
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)

DE Leader peptide.  
 OS Escherichia coli.  
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;  
 OC Enterobacteriaceae; Escherichia.  
 OX NCBI\_TaxID=562;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=K12;  
 RA Faber F., van Giezen M., Van Gorcom R.F.M., Harder W.;  
 RT "Identification of two Escherichia coli K12 proteins which are induced  
 RT in response to pollutant stress."  
 RL Submitted (APR-1996) to the EMBL/GenBank/DDBJ databases.  
 RN [2]  
 RP SEQUENCE OF 2-11 FROM N.A.  
 RC STRAIN=K12;  
 RX MEDLINE=85134883; PubMed=6396419;  
 RA Hudson G.S., Davidson B.E.;  
 RT "Nucleotide sequence and transcription of the phenylalanine and  
 RT tyrosine operons of Escherichia coli K12."  
 RL J. Mol. Biol. 180:1023-1051(1984).  
 DR EMBL; Z70523; CAA94435.1; -.  
 SQ SEQUENCE 11 AA; 1402 MW; 87AB199204141775 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LN 5  
 ||  
 Db 2 LN 3

# RESULT 19

Q47420

ID Q47420 PRELIMINARY; PRT; 11 AA.  
 AC Q47420;  
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE ORF11 protein.  
 OS Escherichia coli.  
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;  
 OC Enterobacteriaceae; Escherichia.  
 OX NCBI\_TaxID=562;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=K12;  
 RX MEDLINE=92041688; PubMed=1657895;  
 RA Sharples G.J., Lloyd R.G.;  
 RT "Resolution of Holliday junctions in Escherichia coli: Identification  
 RT of the ruvC gene product as a 19-Kilodalton protein."  
 RL J. Bacteriol. 173:7711-7715(1991).  
 DR EMBL; X59551; CAA42127.1; -.  
 DR PIR; S19015; S19015.  
 SQ SEQUENCE 11 AA; 1215 MW; DD8D6D4D56C6D33D CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;

Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AK 9  
||  
Db 4 AK 5

RESULT 20

Q8KRA1

ID Q8KRA1 PRELIMINARY; PRT; 11 AA.  
AC Q8KRA1;  
DT 01-OCT-2002 (TrEMBLrel. 22, Created)  
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)  
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)  
DE Hypothetical protein (Fragment).  
OS Streptococcus lutetiensis.  
OC Bacteria; Firmicutes; Lactobacillales; Streptococcaceae;  
OC Streptococcus.  
OX NCBI\_TaxID=150055;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=5-F9; TRANSPOSON=Tn5382-like;  
RA Dahl K.H., Sundsfjord A.;  
RT "vanB2 operons linked to Tn5382-like elements in Streptococcus strains  
RT from veal calves."  
RL Submitted (MAY-2001) to the EMBL/GenBank/DDBJ databases.  
DR EMBL; AY035709; AAL07293.1; -.  
KW Hypothetical protein.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1329 MW; 93207414D1EEAB5E CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
||  
Db 8 AL 9

RESULT 21

Q56413

ID Q56413 PRELIMINARY; PRT; 11 AA.  
AC Q56413;  
DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE IS602L region DNA, 5' end (Fragment).  
OS Escherichia coli.  
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;  
OC Enterobacteriaceae; Escherichia.  
OX NCBI\_TaxID=562;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC TRANSPOSON=Transposon Tn602;  
RX MEDLINE=87318208; PubMed=2819910;

RA Stibitz S., Davies J.E.;  
 RT "Tn602: A naturally occurring relative of Tn903 with direct repeats."  
 RL Plasmid 17:202-209(1987).  
 DR EMBL; M22735; AAA27464.1; -.  
 FT NON\_TER 1 1  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1361 MW; 447E8354A05339C3 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 NW 6  
 ||  
 Db 9 NW 10

# RESULT 22

Q47059

ID Q47059 PRELIMINARY; PRT; 11 AA.  
 AC Q47059;  
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE Acetyl ornithine deacetylase (Fragment).  
 GN ARGE.  
 OS Escherichia coli.  
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;  
 OC Enterobacteriaceae; Escherichia.  
 OX NCBI\_TaxID=562;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=83064529; PubMed=6292860;  
 RA Charlier D., Piette J., Glansdorff N.;  
 RT "IS3 can function as a mobile promoter in E. coli."  
 RL Nucleic Acids Res. 10:5935-5948(1982).  
 DR EMBL; J01589; AAA23485.1; -.  
 DR PIR; I41138; I41138.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1181 MW; 93F0429162C05731 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LN 5  
 ||  
 Db 2 LN 3

# RESULT 23

Q9R446

ID Q9R446 PRELIMINARY; PRT; 11 AA.  
 AC Q9R446;  
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
 DT 01-MAY-2000 (TrEMBLrel. 13, Last annotation update)

DE Carbamoyl-phosphate synthase subunit A (Fragment).  
GN CARA.  
OS Neisseria gonorrhoeae.  
OC Bacteria; Proteobacteria; Betaproteobacteria; Neisseriales;  
OC Neisseriaceae; Neisseria.  
OX NCBI\_TaxID=485;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=MS11, and FA1090;  
RX MEDLINE=95291461; PubMed=7773412;  
RA Lawson F.S., Billowes F.M., Dillon J.A.;  
RT "Organization of carbamoyl-phosphate synthase genes in Neisseria  
RT gonorrhoeae includes a large, variable intergenic sequence which is  
RT also present in other Neisseria species.";  
RL Microbiology 141:0-0(0).  
RN [2]  
RP SEQUENCE FROM N.A.  
RC STRAIN=MS11, and FA1090;  
RA Brinkman F.S.L., Francis F.M., Dillon J.R.;  
RT "Complexity of the variable sequence between the carbamoyl-phosphate  
RT synthase genes of Neisseria species.";  
RL Submitted (OCT-1997) to the EMBL/GenBank/DDBJ databases.  
DR EMBL; AF029363; AAC78453.1; -.  
DR EMBL; AF029362; AAC78452.1; -.  
FT NON TER 1 1  
SQ SEQUENCE 11 AA; 1178 MW; 0C07A8E3DDD33694 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AK 9  
||  
Db 8 AK 9

#### RESULT 24

##### Q8GMU3

ID Q8GMU3 PRELIMINARY; PRT; 11 AA.  
AC Q8GMU3;  
DT 01-MAR-2003 (TrEMBLrel. 23, Created)  
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)  
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
DE Putative catalase isozyme (Fragment).  
GN KATA.  
OS Acinetobacter lwoffii.  
OG Plasmid pKLH202.  
OC Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;  
OC Moraxellaceae; Acinetobacter.  
OX NCBI\_TaxID=28090;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=TC108;  
RA Kholodii G.Y., Yurieva O.V., Mindlin S.Z., Gorlenko Z.M.,  
RA Nikiforov V.G.;  
RT "pKLH2-like aberrant transposons and possible mechanisms of their  
RT dissemination.";



RL Submitted (OCT-1999) to the EMBL/GenBank/DDBJ databases.  
DR EMBL; AJ250245; CAC80800.1; -.  
DR GO; GO:0046821; C:extrachromosomal DNA; IEA.  
KW Plasmid.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1233 MW; 81A15757B333276A CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
||  
Db 5 PK 6

#### RESULT 25

Q9X9S6

ID Q9X9S6 PRELIMINARY; PRT; 11 AA.  
AC Q9X9S6;  
DT 01-NOV-1999 (TrEMBLrel. 12, Created)  
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)  
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)  
DE Hypothetical protein (Fragment).  
OS Streptomyces lividans.  
OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;  
OC Streptomycineae; Streptomycetaceae; Streptomyces.  
OX NCBI\_TaxID=1916;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=TK21;  
RX MEDLINE=99328982; PubMed=10400594;  
RA Martinez-Costa O.H., Martin-Triana A.J., Martinez E.,  
RA Fernandez-Moreno M.A., Malpartida F.;  
RT "An additinal regulatory gene for actinorhodin production in  
RT Streptomyces lividans involves a LysR-type transcriptional  
RT regulator.";  
RL J. Bacteriol. 181:4353-4364(1999).  
DR EMBL; Y18818; CAB51138.1; -.  
KW Hypothetical protein.  
FT NON\_TER 1 1  
SQ SEQUENCE 11 AA; 1160 MW; D1BABA8EC1EDC412 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RA 3  
||  
Db 5 RA 6

#### RESULT 26

Q7X566

ID Q7X566 PRELIMINARY; PRT; 11 AA.  
AC Q7X566;  
DT 01-OCT-2003 (TrEMBLrel. 25, Created)

DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)  
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)  
 DE Hypothetical protein (Fragment).  
 OS *Thermus thermophilus*.  
 OC Bacteria; Deinococcus-Thermus; Deinococci; Thermales; Thermaceae;  
 OC *Thermus*.  
 OX NCBI\_TaxID=274;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Miyazaki T., Miyazaki J., Nishiyama M., Yamane H.;  
 RT "Characterization of a LysN, the 4th enzyme in lysine biosynthesis, in  
 RT an extremely thermophilic bacterium, *Thermus thermophilus* HB27.";  
 RL Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.  
 DR EMBL; AB097117; BAC76940.1; -.  
 KW Hypothetical protein.  
 FT NON TER 11 11  
 SQ SEQUENCE 11 AA; 1073 MW; 39792C1E75B72EB8 CRC64;

Query Match 18.2%; Score 2; DB 2; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
 ||  
 Db 8 PK 9

# RESULT 27

O60005

ID O60005 PRELIMINARY; PRT; 11 AA.  
 AC O60005;  
 DT 01-AUG-1998 (TrEMBLrel. 07, Created)  
 DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
 DE TrpC (Fragment).  
 GN TRPC.  
 OS *Aspergillus versicolor*.  
 OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;  
 OC Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; *Aspergillus*.  
 OX NCBI\_TaxID=46472;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=NRRL 226;  
 RA Geiser D.M., Taylor J.W., Smith G.W., Ritchie K.B.;  
 RT "Aspergillus sydowii causing sea fan mortality.";  
 RL Nature 0:0-0(1998).  
 DR EMBL; AF058967; AAC15743.1; -.  
 FT NON TER 11 11  
 SQ SEQUENCE 11 AA; 1142 MW; 8C71EBD3B2C72DC5 CRC64;

Query Match 18.2%; Score 2; DB 3; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
 ||  
 Db 5 AL 6

RESULT 28

O60007

ID O60007 PRELIMINARY; PRT; 11 AA.  
 AC O60007;  
 DT 01-AUG-1998 (TrEMBLrel. 07, Created)  
 DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
 DE TrpC (Fragment).  
 GN TRPC.  
 OS Emericella violacea.  
 OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;  
 OC Eurotiales; Trichocomaceae; Emericella.  
 OX NCBI\_TaxID=41738;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=ATCC 16813;  
 RA Geiser D.M., Taylor J.W., Smith G.W., Ritchie K.B.;  
 RT "Aspergillus sydowii causing sea fan mortality."  
 RL Nature 0:0-0(1998).  
 DR EMBL; AF058975; AAC15751.1; -.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1142 MW; 8C71EBD3B2C72DC5 CRC64;

Query Match 18.2%; Score 2; DB 3; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
 ||  
 Db 5 AL 6

RESULT 29

O60192

ID O60192 PRELIMINARY; PRT; 11 AA.  
 AC O60192;  
 DT 01-AUG-1998 (TrEMBLrel. 07, Created)  
 DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)  
 DT 01-OCT-2001 (TrEMBLrel. 18, Last annotation update)  
 DE TRPC (Fragment).  
 GN TRPC.  
 OS Aspergillus sydowii.  
 OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;  
 OC Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; Aspergillus.  
 OX NCBI\_TaxID=75750;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=NRRL 249, H640, SA-25, SS-7, FK-11, and NRRL 244;  
 RA Geiser D.M., Taylor J.W., Smith G.W., Ritchie K.B.;  
 RL Nature 0:0-0(1998).  
 DR EMBL; AF058974; AAC15750.1; -.  
 DR EMBL; AF058968; AAC15744.1; -.  
 DR EMBL; AF058969; AAC15745.1; -.  
 DR EMBL; AF058970; AAC15746.1; -.  
 DR EMBL; AF058971; AAC15747.1; -.

DR EMBL; AF058973; AAC15749.1; -.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1142 MW; 8C71EBD3B2C72DC5 CRC64;

Query Match 18.2%; Score 2; DB 3; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
||  
Db 5 AL 6

RESULT 30

Q9C1R7

ID Q9C1R7 PRELIMINARY; PRT; 11 AA.  
AC Q9C1R7;  
DT 01-JUN-2001 (TrEMBLrel. 17, Created)  
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)  
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)  
DE Ssulp (Fragment).  
GN SSU1.  
OS Saccharomyces cerevisiae (Baker's yeast).  
OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;  
OC Saccharomycetales; Saccharomycetaceae; Saccharomyces.  
OX NCBI\_TaxID=4932;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=T73;  
RA Perez-Ortin J.E.;  
RL Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases.  
DR EMBL; AF239758; AAK15080.1; -.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1274 MW; 12567614D732D374 CRC64;

Query Match 18.2%; Score 2; DB 3; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 NW 6  
||  
Db 4 NW 5

RESULT 31

O60006

ID O60006 PRELIMINARY; PRT; 11 AA.  
AC O60006;  
DT 01-AUG-1998 (TrEMBLrel. 07, Created)  
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE TrpC (Fragment).  
GN TRPC.  
OS Aspergillus sydowii.  
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;  
OC Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; Aspergillus.  
OX NCBI\_TaxID=75750;

RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=NRRL 242;  
 RA Geiser D.M., Taylor J.W., Smith G.W., Ritchie K.B.;  
 RT "Aspergillus sydowii causing sea fan mortality."  
 RL Nature 0:0-0(1998).  
 DR EMBL; AF058972; AAC15748.1; -.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1110 MW; 8C71F0C3F2C72DC5 CRC64;

Query Match 18.2%; Score 2; DB 3; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
 ||  
 Db 5 AL 6

RESULT 32

O60614

ID O60614 PRELIMINARY; PRT; 11 AA.  
 AC O60614;  
 DT 01-AUG-1998 (TrEMBLrel. 07, Created)  
 DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE MTG8 related protein (Fragment).  
 GN MTGR1.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Brain;  
 RX MEDLINE=99009318; PubMed=9790752;  
 RA Calabi F., Cilli V.;  
 RT "CBFA2T1, a gene rearranged in human leukemia, is a member of a  
 RT multigene family."  
 RL Genomics 52:332-341(1998).  
 DR EMBL; AF052211; AAC64700.1; -.  
 DR GO; GO:0008283; P:cell proliferation; TAS.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1047 MW; CF001CE4DDD86772 CRC64;

Query Match 18.2%; Score 2; DB 4; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
 ||  
 Db 6 GA 7

RESULT 33

Q14759

ID Q14759 PRELIMINARY; PRT; 11 AA.

AC Q14759;  
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
 DE Lymphocyte cytosolic protein 2 (Fragment).  
 GN LCP2.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Sunden S.L.F., Carr L.L., Clements J.L, Motto D.G., Koretzky G.A.;  
 RT "Polymorphism in and localization of the gene encoding the 76 kDa SH2  
 RT domain-containing Leukocyte Protein (SLP-76) to chromosome 5q33.1-  
 RT qter.";  
 RL Genomics 0:0-0(1995).  
 DR EMBL; U44065; AAA93308.1; -.  
 FT NON TER 1 1  
 FT NON TER 11 11  
 SQ SEQUENCE 11 AA; 1242 MW; D695104224072DDD CRC64;

Query Match 18.2%; Score 2; DB 4; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
 ||  
 Db 5 AL 6

#### RESULT 34

##### Q9UCP2

ID Q9UCP2 PRELIMINARY; PRT; 11 AA.  
 AC Q9UCP2;  
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE cGMP-inhibited LOW K(M) cAMP phosphodiesterase PEAK 43, CGI-PDE  
 DE (Fragment).  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE.  
 RX MEDLINE=92283180; PubMed=1317779;  
 RA LeBon T.R., Kasuya J., Paxton R.J., Belfrage P., Hockman S.,  
 RA Manganiello V.C., Fujita Yamaguchi Y.;  
 RT "Purification and characterization of guanosine 3',5'-monophosphate-  
 RT inhibited low K(m) adenosine 3',5'-monophosphate phosphodiesterase  
 RT from human placental cytosolic fractions.";  
 RL Endocrinology 130:3265-3274(1992).  
 DR GO; GO:0005829; C:cytosol; TAS.  
 DR GO; GO:0004115; F:cAMP-specific phosphodiesterase activity; TAS.  
 DR GO; GO:0007165; P:signal transduction; NAS.  
 FT NON\_TER 1 1

FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1220 MW; 7DF1FDF2D44735BB CRC64;

Query Match 18.2%; Score 2; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LN 5  
||  
Db 2 LN 3

RESULT 35

Q9NY38

ID Q9NY38 PRELIMINARY; PRT; 11 AA.  
AC Q9NY38;  
DT 01-OCT-2000 (TrEMBLrel. 15, Created)  
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)  
DT 01-OCT-2000 (TrEMBLrel. 15, Last annotation update)  
DE Heavy metal-responsive transcription factor (Fragment).  
GN MTF-1.  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
OX NCBI\_TaxID=9606;  
RN [1]  
RP SEQUENCE FROM N.A.  
RA Auf der Maur A., Belser T., Wang Y., Gunes C., Lichtlen P.,  
RA Georgiev O., Schaffner W.;  
RT "Characterization of the mouse gene for the heavy metal-responsive  
RT transcription factor MTF-1.";  
RL Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases.  
DR EMBL; AJ251881; CAB71327.1; -.  
FT NON\_TER 1 1  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1099 MW; A8653693773772C6 CRC64;

Query Match 18.2%; Score 2; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
||  
Db 1 GA 2

RESULT 36

O60761

ID O60761 PRELIMINARY; PRT; 11 AA.  
AC O60761;  
DT 01-AUG-1998 (TrEMBLrel. 07, Created)  
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE NPT-1 protein (Fragment).  
GN NPT-1.  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=98207718; PubMed=9545579;  
 RA Taketani Y., Miyamoto K., Chikamori M., Tanaka K., Yamamoto H.,  
 RA Tatsumi S., Morita K., Takeda E.;  
 RT "Characterization of the 5' flanking region of the human NPT-1  
 RT Na<sup>+</sup>/phosphate cotransporter gene.";  
 RL Biochim. Biophys. Acta 1396:267-272(1998).  
 DR EMBL; D83236; BAA25645.1; -.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1358 MW; 884E2D4E6734044A CRC64;

Query Match 18.2%; Score 2; DB 4; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
 ||  
 Db 9 PK 10

# RESULT 37

O75811

ID O75811 PRELIMINARY; PRT; 11 AA.  
 AC O75811;  
 DT 01-NOV-1998 (TrEMBLrel. 08, Created)  
 DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)  
 DT 01-NOV-1998 (TrEMBLrel. 08, Last annotation update)  
 DE ErbB-3 R2 (Fragment).  
 GN C-ERBB-3.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Ovarian carcinoma;  
 RX MEDLINE=98345147; PubMed=9681822;  
 RA Lee H., Maihle N.J.;  
 RT "Isolation and characterization of four alternate c-erbB3 transcripts  
 RT expressed in ovarian carcinoma-derived cell lines and normal human  
 RT tissues.";  
 RL Oncogene 16:3243-3252(1998).  
 DR EMBL; U88358; AAC39858.1; -.  
 FT NON\_TER 1 1  
 SQ SEQUENCE 11 AA; 1017 MW; 21B236366EB72878 CRC64;

Query Match 18.2%; Score 2; DB 4; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
 ||  
 Db 8 PK 9



RESULT 38

Q15997

ID Q15997 PRELIMINARY; PRT; 11 AA.  
 AC Q15997;  
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE RARA protein (Fragment).  
 GN RARA.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=93222087; PubMed=7682097;  
 RA Dong S., Geng J.P., Tong J.H., Wu Y., Cai J.R., Sun G.L., Chen S.R.,  
 RA Wang Z.Y., Larsen C.J., Berger R., et al;  
 RT "Breakpoint clusters of the PML gene in acute promyelocytic leukemia:  
 RT primary structure of the reciprocal products of the PML-RARA gene in a  
 RT patient with t(15;17).";  
 RL Genes Chromosomes Cancer 6:133-139(1993).  
 DR EMBL; S57794; AAD13888.1; -.  
 DR PIR; I54081; I54081.  
 FT NON TER 1 1  
 SQ SEQUENCE 11 AA; 1277 MW; 33C70E22CDDDC417 CRC64;

Query Match 18.2%; Score 2; DB 4; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RA 3  
 ||  
 Db 5 RA 6

RESULT 39

Q96QF8

ID Q96QF8 PRELIMINARY; PRT; 11 AA.  
 AC Q96QF8;  
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
 DE Agrin (Fragment).  
 GN AGRN.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Liyanage Y., Vincent A.C., Beeson D.M.W.;  
 RT "Cloning, expression and functional studies on human neural agrin  
 RT isoforms:y0z8 inserts in spinal cord and a small cell lung cancer  
 RT line.";  
 RL Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.

RN [2]  
 RP SEQUENCE FROM N.A.  
 RA Liyanage Y.;  
 RL Thesis (1999), Department of Clinical Medicine, University of Oxford,  
 RL Oxford, United Kingdom.  
 DR EMBL; AJ309206; CAC42508.1; -.  
 FT NON\_TER 1 1  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1126 MW; 59E0B33DD865BAA7 CRC64;

Query Match 18.2%; Score 2; DB 4; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
 ||  
 Db 8 AL 9

#### RESULT 40

Q9UCP5

ID Q9UCP5 PRELIMINARY; PRT; 11 AA.  
 AC Q9UCP5;  
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE Aggrecan core protein (Fragment).  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE.  
 RX MEDLINE=92235266; PubMed=1569188;  
 RA Sandy J.D., Flannery C.R., Neame P.J., Lohmander L.S.;  
 RL J. Clin. Invest. 89:1512-1516(1992).  
 DR GO; GO:0005201; F:extracellular matrix structural constituent; TAS.  
 DR GO; GO:0006508; P:proteolysis and peptidolysis; NAS.  
 DR GO; GO:0001501; P:skeletal development; NAS.  
 FT NON\_TER 1 1  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1149 MW; 8FBFE8DFE72042D5 CRC64;

Query Match 18.2%; Score 2; DB 4; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
 ||  
 Db 1 AR 2

#### RESULT 41

Q9UE69

ID Q9UE69 PRELIMINARY; PRT; 11 AA.  
 AC Q9UE69;  
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)

DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE 5HT3 serotonin receptor (Fragment).  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Bedford F.K., Taylor S., Julius D., Ingraham H.A.;  
 RT "Expression of the 5HT3 serotonin receptor gene in neuronal cells is  
 RT regulated via novel NF-1 mediated complexes.";  
 RL Submitted (OCT-1996) to the EMBL/GenBank/DDBJ databases.  
 DR EMBL; U73443; AAB71736.1; -.  
 DR GO; GO:0004872; F:receptor activity; IEA.  
 KW Receptor.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1286 MW; 28F50414C6C6C2D3 CRC64;

Query Match 18.2%; Score 2; DB 4; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
 ||  
 Db 8 AL 9

#### RESULT 42

##### Q9HCN5

ID Q9HCN5 PRELIMINARY; PRT; 11 AA.  
 AC Q9HCN5;  
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)  
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Platelet glycoprotein VI (Fragment).  
 GN GPVI OR GP6.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=20483673; PubMed=11027634;  
 RA Ezumi Y., Uchiyama T., Takayama H.;  
 RT "Molecular cloning, genomic structure, chromosomal localization, and  
 RT alternative splice forms of the platelet collagen receptor  
 RT glycoprotein VI.";  
 RL Biochem. Biophys. Res. Commun. 277:27-36(2000).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22359008; PubMed=12359731;  
 RA Holmes M.L., Bartle N., Eisbacher M., Chong B.H.;  
 RT "Cloning and Analysis of the Thrombopoietin-induced Megakaryocyte-  
 RT specific Glycoprotein VI Promoter and Its Regulation by GATA-1, Fli-1,  
 RT and Spl.";  
 RL J. Biol. Chem. 277:48333-48341(2002).

DR EMBL; AB043943; BAB12248.1; -.  
DR EMBL; AF521646; AAN86273.1; -.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1166 MW; 8D7839FE2DC1B775 CRC64;

Query Match 18.2%; Score 2; DB 4; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4  
||  
Db 7 AL 8

RESULT 43

Q26092

ID Q26092 PRELIMINARY; PRT; 11 AA.  
AC Q26092;  
DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE Sea STAR histone H2B gene 5'region (Fragment).  
OS Pisaster ochraceus (Sea star).  
OC Eukaryota; Metazoa; Echinodermata; Eleutherozoa; Asterozoa;  
OC Asteroidea; Forcipulatacea; Forcipulatida; Asteriidae; Pisaster.  
OX NCBI\_TaxID=7612;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC TISSUE=Sperm;  
RA Howell A.M., Cool D., Hewitt J., Ydenberg B., Smith M.J., Honda B.M.;  
RT "Organization and Unusual Expression of Histone Genes in the Sea Star  
RT Pisaster ochraceus."  
RL J. Mol. Evol. 25:29-36(1987).  
DR EMBL; X05619; CAA29106.1; -.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1128 MW; 5173974A3865BDD3 CRC64;

Query Match 18.2%; Score 2; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
||  
Db 3 PK 4

RESULT 44

Q9NFX0

ID Q9NFX0 PRELIMINARY; PRT; 11 AA.  
AC Q9NFX0;  
DT 01-OCT-2000 (TrEMBLrel. 15, Created)  
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)  
DT 01-JUN-2001 (TrEMBLrel. 17, Last annotation update)  
DE Mitochondrial aconitase (Fragment).  
GN ACON OR MAC OR CG9244.  
OS Drosophila melanogaster (Fruit fly).  
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;

OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
 OC Ephydroidea; Drosophilidae; Drosophila.  
 OX NCBI\_TaxID=7227;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=CANTON S;  
 RA Lind M.I.;  
 RT "Charaterisation of two iron regulatory proteins and mitochondrial  
 RT aconitase in Drosophila melanogaster.";  
 RL Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases.  
 DR EMBL; AJ252019; CAB93522.1; -.  
 DR FlyBase; FBgn0010100; Acon.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1204 MW; 7C889CE4D4469734 CRC64;

Query Match 18.2%; Score 2; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
 ||  
 Db 3 AR 4

#### RESULT 45

Q86D32  
 ID Q86D32 PRELIMINARY; PRT; 11 AA.  
 AC Q86D32;  
 DT 01-JUN-2003 (TrEMBLrel. 24, Created)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE Histone H1 (Fragment).  
 OS Trypanosoma cruzi.  
 OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.  
 OX NCBI\_TaxID=5693;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=Dm28c;  
 RX MEDLINE=22557728; PubMed=12670512;  
 RA Sturm N.R., Vargas N.S., Westenberger S.J., Zingales B.,  
 RA Campbell D.A.;  
 RT "Evidence for multiple hybrid groups in Trypanosoma cruzi.";  
 RL Int. J. Parasitol. 33:269-279(2003).  
 DR EMBL; AF545075; AAP21903.1; -.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1114 MW; CCC1B31E7772CDDD CRC64;

Query Match 18.2%; Score 2; DB 5; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
 ||  
 Db 8 PK 9

#### RESULT 46

Q86D31

ID Q86D31 PRELIMINARY; PRT; 11 AA.  
AC Q86D31;  
DT 01-JUN-2003 (TrEMBLrel. 24, Created)  
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)  
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
DE Histone H1 (Fragment).  
OS Trypanosoma cruzi.  
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.  
OX NCBI\_TaxID=5693;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=Sylvio X10;  
RX MEDLINE=22557728; PubMed=12670512;  
RA Sturm N.R., Vargas N.S., Westenberger S.J., Zingales B.,  
RA Campbell D.A.;  
RT "Evidence for multiple hybrid groups in Trypanosoma cruzi.";  
RL Int. J. Parasitol. 33:269-279(2003).  
DR EMBL; AF545076; AAP21906.1; -.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1174 MW; CCD1B21E7772CDDD CRC64;

Query Match 18.2%; Score 2; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 PK 11  
||  
Db 8 PK 9

RESULT 47

Q95PX6

ID Q95PX6 PRELIMINARY; PRT; 11 AA.  
AC Q95PX6;  
DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)  
DE Hypothetical protein.  
GN ZK1236.8.  
OS Caenorhabditis elegans.  
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;  
OC Rhabditidae; Peloderinae; Caenorhabditis.  
OX NCBI\_TaxID=6239;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=Bristol N2;  
RX MEDLINE=99069613; PubMed=9851916;  
RA None;  
RT "Genome sequence of the nematode C. elegans: a platform for  
RT investigating biology. The C. elegans Sequencing Consortium.";  
RL Science 282:2012-2018(1998).  
RN [2]  
RP SEQUENCE FROM N.A.  
RC STRAIN=Bristol N2;  
RA Favello A.;  
RT "The sequence of C. elegans cosmid ZK1236.";

RL Submitted (MAY-1993) to the EMBL/GenBank/DDBJ databases.  
RN [3]  
RP SEQUENCE FROM N.A.  
RC STRAIN=Bristol N2;  
RA Waterston R.;  
RT "Direct Submission.";  
RL Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.  
DR EMBL; L13200; AAL11108.1; -.  
DR WormPep; ZK1236.8; CE29629.  
KW Hypothetical protein.  
SQ SEQUENCE 11 AA; 1304 MW; DFA3510A25A76322 CRC64;

Query Match 18.2%; Score 2; DB 5; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10  
||  
Db 5 KP 6

RESULT 48

Q95J20

ID Q95J20 PRELIMINARY; PRT; 11 AA.  
AC Q95J20;  
DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE Malic enzyme (Fragment).  
OS Eulemur fulvus albocollaris.  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Strepsirhini; Lemuridae; Eulemur.  
OX NCBI\_TaxID=122224;  
RN [1]  
RP SEQUENCE FROM N.A.  
RA Wyner Y.M., Johnson S.E., DeSalle R.;  
RT "A genetic assessment of a red-fronted/white-collared lemur hybrid  
RT zone at Andringitra, Madagascar.";  
RL Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.  
DR EMBL; AF258139; AAK53119.1; -.  
DR EMBL; AF258145; AAK53125.1; -.  
DR EMBL; AF258147; AAK53127.1; -.  
FT NON\_TER 1 1  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1204 MW; C7CD492E66D9D2C9 CRC64;

Query Match 18.2%; Score 2; DB 6; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
||  
Db 8 GA 9

RESULT 49

Q95NB6

ID Q95NB6 PRELIMINARY; PRT; 11 AA.  
 AC Q95NB6;  
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
 DE Malic enzyme (Fragment).  
 OS Eulemur fulvus rufus.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Strepsirhini; Lemuridae; Eulemur.  
 OX NCBI\_TaxID=47179;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Wyner Y.M., Johnson S.E., DeSalle R.;  
 RT "A genetic assessment of a red-fronted/white-collared lemur hybrid  
 RT zone at Andringitra, Madagascar.";  
 RL Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.  
 DR EMBL; AF258148; AAK53128.1; -.  
 FT NON\_TER 1 1  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1204 MW; C7CD492E66D9D2C9 CRC64;  
  
 Query Match 18.2%; Score 2; DB 6; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
 Qy 7 GA 8  
 ||  
 Db 8 GA 9

# RESULT 50

Q95J19

ID Q95J19 PRELIMINARY; PRT; 11 AA.  
 AC Q95J19;  
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
 DE Malic enzyme (Fragment).  
 OS Eulemur fulvus (brown lemur).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Strepsirhini; Lemuridae; Eulemur.  
 OX NCBI\_TaxID=13515;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Wyner Y.M., Johnson S.E., DeSalle R.;  
 RT "A genetic assessment of a red-fronted/white-collared lemur hybrid  
 RT zone at Andringitra, Madagascar.";  
 RL Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.  
 DR EMBL; AF258163; AAK53143.1; -.  
 DR EMBL; AF258170; AAK53150.1; -.  
 DR EMBL; AF258171; AAK53151.1; -.  
 DR EMBL; AF258173; AAK53153.1; -.  
 DR EMBL; AF258175; AAK53155.1; -.  
 DR EMBL; AF258178; AAK53158.1; -.  
 DR EMBL; AF258179; AAK53159.1; -.  
 DR EMBL; AF258181; AAK53161.1; -.  
 DR EMBL; AF258182; AAK53162.1; -.



FT NON\_TER 1 1  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1204 MW; C7CD492E66D9D2C9 CRC64;

Query Match 18.2%; Score 2; DB 6; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
||  
Db 8 GA 9

RESULT 51

O77914

ID O77914 PRELIMINARY; PRT; 11 AA.  
AC O77914;  
DT 01-NOV-1998 (TrEMBLrel. 08, Created)  
DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE MHC class II B locus 9 (Fragment).  
OS Oreochromis niloticus (Nile tilapia) (Tilapia nilotica).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;  
OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Labroidae;  
OC Cichlidae; Oreochromis.  
OX NCBI\_TaxID=8128;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=98315113; PubMed=9649539;  
RA Malaga-Trillo E., Zaleska-Rutczynska Z., McAndrew B., Vincek V.,  
RA Figueroa F., Sultmann H., Klein J.;  
RT "Linkage relationships and haplotype polymorphism among cichlid mhc  
RT class II B loci."  
RL Genetics 149:1527-1537(1998).  
DR EMBL; AF050025; AAC41364.1; -.  
FT NON\_TER 1 1  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1167 MW; 2F46D347A2C045A3 CRC64;

Query Match 18.2%; Score 2; DB 7; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
||  
Db 9 GA 10

RESULT 52

Q9UEX7

ID Q9UEX7 PRELIMINARY; PRT; 11 AA.  
AC Q9UEX7;  
DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
DT 01-JUN-2001 (TrEMBLrel. 17, Last annotation update)  
DE Human leucocyte antigen B (Fragment).

GN HLA-A\*03.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Fae I., Kriks D., Cernava B., Fischer G.F.;  
 RT "An novel HLA-A\*03 allele."  
 RL Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.  
 DR EMBL; AJ252283; CAB65736.1; -.  
 FT NON\_TER 1 1  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1118 MW; 5191BC69C1A72DD7 CRC64;  
  
 Query Match 18.2%; Score 2; DB 7; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
 ||  
 Db 2 GA 3

# RESULT 53

O78118  
 ID O78118 PRELIMINARY; PRT; 11 AA.  
 AC O78118;  
 DT 01-NOV-1998 (TrEMBLrel. 08, Created)  
 DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
 DE MHC class II B locus 9 (Fragment).  
 OS Oreochromis niloticus (Nile tilapia) (Tilapia nilotica).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;  
 OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Labroidei;  
 OC Cichlidae; Oreochromis.  
 OX NCBI\_TaxID=8128;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=98315113; PubMed=9649539;  
 RA Malaga-Trillo E., Zaleska-Rutczynska Z., McAndrew B., Vincek V.,  
 RA Figueroa F., Sultmann H., Klein J.;  
 RT "Linkage relationships and haplotype polymorphism among cichlid mhc  
 RT class II B loci."  
 RL Genetics 149:1527-1537(1998).  
 DR EMBL; AF049999; AAC41338.1; -.  
 FT NON\_TER 1 1  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1199 MW; 2F46D347B69045A3 CRC64;

Query Match 18.2%; Score 2; DB 7; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
 ||

Db 9 GA 10

RESULT 54

O77872

ID O77872 PRELIMINARY; PRT; 11 AA.  
AC O77872;  
DT 01-NOV-1998 (TrEMBLrel. 08, Created)  
DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE MHC class II B locus 1 (Fragment).  
OS Oreochromis niloticus (Nile tilapia) (Tilapia nilotica).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;  
OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Labroidae;  
OC Cichlidae; Oreochromis.  
OX NCBI\_TaxID=8128;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=98315113; PubMed=9649539;  
RA Malaga-Trillo E., Zaleska-Rutczynska Z., McAndrew B., Vincek V.,  
RA Figueroa F., Sultmann H., Klein J.;  
RT "Linkage relationships and haplotype polymorphism among cichlid mhc  
RT class II B loci.";  
RL Genetics 149:1527-1537(1998).  
DR EMBL; AF049981; AAC41320.1; -.  
FT NON\_TER 1 1  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1133 MW; 283248EC3EB72728 CRC64;

Query Match 18.2%; Score 2; DB 7; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10

||

Db 8 KP 9

RESULT 55

O78120

ID O78120 PRELIMINARY; PRT; 11 AA.  
AC O78120;  
DT 01-NOV-1998 (TrEMBLrel. 08, Created)  
DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE MHC class II B locus 9 (Fragment).  
OS Oreochromis niloticus (Nile tilapia) (Tilapia nilotica).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;  
OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Labroidae;  
OC Cichlidae; Oreochromis.  
OX NCBI\_TaxID=8128;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=98315113; PubMed=9649539;  
RA Malaga-Trillo E., Zaleska-Rutczynska Z., McAndrew B., Vincek V.,

RA Figueroa F., Sultmann H., Klein J.;  
 RT "Linkage relationships and haplotype polymorphism among cichlid mhc  
 RT class II B loci.";  
 RL Genetics 149:1527-1537(1998).  
 DR EMBL; AF050026; AAC41365.1; -.  
 FT NON\_TER 1 1  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1199 MW; 2F46D347B69045A3 CRC64;

Query Match 18.2%; Score 2; DB 7; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GA 8  
 ||  
 Db 9 GA 10

#### RESULT 56

O77873

ID O77873 PRELIMINARY; PRT; 11 AA.  
 AC O77873;  
 DT 01-NOV-1998 (TrEMBLrel. 08, Created)  
 DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
 DE MHC class II B locus 1 (Fragment).  
 OS Oreochromis niloticus (Nile tilapia) (Tilapia nilotica).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;  
 OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Labroidae;  
 OC Cichlidae; Oreochromis.  
 OX NCBI\_TaxID=8128;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=98315113; PubMed=9649539;  
 RA Malaga-Trillo E., Zaleska-Rutczynska Z., McAndrew B., Vincek V.,  
 RA Figueroa F., Sultmann H., Klein J.;  
 RT "Linkage relationships and haplotype polymorphism among cichlid mhc  
 RT class II B loci.";  
 RL Genetics 149:1527-1537(1998).  
 DR EMBL; AF049982; AAC41321.1; -.  
 FT NON\_TER 1 1  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1133 MW; 283248EC3EB72728 CRC64;

Query Match 18.2%; Score 2; DB 7; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10  
 ||  
 Db 8 KP 9

#### RESULT 57

O77871

ID O77871 PRELIMINARY; PRT; 11 AA.

AC 077871;  
 DT 01-NOV-1998 (TrEMBLrel. 08, Created)  
 DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
 DE MHC class II B locus 1 (Fragment).  
 OS Oreochromis niloticus (Nile tilapia) (Tilapia nilotica).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;  
 OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Labroidae;  
 OC Cichlidae; Oreochromis.  
 OX NCBI\_TaxID=8128;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=98315113; PubMed=9649539;  
 RA Malaga-Trillo E., Zaleska-Rutczynska Z., McAndrew B., Vincek V.,  
 RA Figueroa F., Sultmann H., Klein J.;  
 RT "Linkage relationships and haplotype polymorphism among cichlid mhc  
 RT class II B loci."  
 RL Genetics 149:1527-1537(1998).  
 DR EMBL; AF049980; AAC41319.1; -.  
 FT NON\_TER 1 1  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1133 MW; 283248EC3EB72728 CRC64;  
  
 Query Match 18.2%; Score 2; DB 7; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
 Qy 9 KP 10  
 ||  
 Db 8 KP 9

RESULT 58

Q9G622

ID Q9G622 PRELIMINARY; PRT; 11 AA.  
 AC Q9G622;  
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)  
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE Cytochrome c oxidase subunit I (Fragment).  
 GN COI.  
 OS Salea horsfieldii.  
 OG Mitochondrion.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Lepidosauria; Squamata; Iguania; Acrodonta; Agamidae; Draconinae;  
 OC Salea.  
 OX NCBI\_TaxID=118233;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114082; PubMed=12118408;  
 RA Macey J.R., Schulte J.A. II, Larson A.;  
 RT "Evolution and information content of the mitochondrial genomic  
 RT structural features illustrated with acrodont lizards."  
 RL Syst. Biol. 49:257-277(2000).  
 RN [2]  
 RP SEQUENCE FROM N.A.

RX MEDLINE=22114081; PubMed=12118407;  
 RA Macey J.R., Schulte J.A. II, Larson A., Ananjeva N.B., Wang Y.,  
 RA Pethiyagoda R., Rastegar-Pouyani N., Papenfuss T.J.;  
 RT "Evaluating Trans-Tethys migration: An example using Acrodont lizard  
 RT phylogenetics.";  
 RL Syst. Biol. 49:233-256(2000).  
 DR EMBL; AF128490; AAG00707.1; -.  
 DR GO; GO:0005739; C:mitochondrion; IEA.  
 KW Mitochondrion.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1264 MW; 5B2C371E33640DD7 CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
 ||  
 Db 5 AR 6

# RESULT 59

Q95EI4

ID Q95EI4 PRELIMINARY; PRT; 11 AA.  
 AC Q95EI4;  
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE PsaI (Fragment).  
 OS Dendrochilum arachnites.  
 OG Chloroplast.  
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 OC Spermatophyta; Magnoliophyta; Liliopsida; Asparagales; Orchidaceae;  
 OC Epidendroideae; higher Epidendroideae; Coelogyninae; Dendrochilum.  
 OX NCBI\_TaxID=79412;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Barkman T.J., Simpson B.B.;  
 RT "Hybridization and parentage of Dendrochilum acuiiferum (Orchidaceae)  
 RT inferred in a phylogenetic context using nuclear and chloroplast DNA  
 RT sequence data.";  
 RL Syst. Bot. 0:0-0(2001).  
 DR EMBL; AF389216; AAK82409.1; -.  
 DR GO; GO:0009507; C:chloroplast; IEA.  
 KW Chloroplast.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1296 MW; 4AC7B27CA769C447 CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LN 5  
 ||  
 Db 4 LN 5

RESULT 60

Q9G359

ID Q9G359 PRELIMINARY; PRT; 11 AA.  
 AC Q9G359;  
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)  
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE Cytochrome c oxidase subunit I (Fragment).  
 GN COI.  
 OS Japalura flaviceps.  
 OG Mitochondrion.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Lepidosauria; Squamata; Iguania; Acrodonta; Agamidae; Draconinae;  
 OC Japalura.  
 OX NCBI\_TaxID=52218;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=97153820; PubMed=9000751;  
 RA Macey J.R., Larson A., Ananjeva N.B., Papenfuss T.J.;  
 RT "Replication slippage may cause parallel evolution in the secondary  
 RT structures of mitochondrial transfer RNAs.";  
 RL Mol. Biol. Evol. 14:30-39(1997).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114082; PubMed=12118408;  
 RA Macey J.R., Schulte J.A. II, Larson A.;  
 RT "Evolution and information content of the mitochondrial genomic  
 RT structural features illustrated with acrodont lizards.";  
 RL Syst. Biol. 49:257-277(2000).  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114081; PubMed=12118407;  
 RA Macey J.R., Schulte J.A. II, Larson A., Ananjeva N.B., Wang Y.,  
 RA Pethiyagoda R., Rastegar-Pouyani N., Papenfuss T.J.;  
 RT "Evaluating Trans-Tethys migration: An example using Acrodont lizard  
 RT phylogenetics.";  
 RL Syst. Biol. 49:233-256(2000).  
 DR EMBL; AF128500; AAG00737.1; -.  
 DR GO; GO:0005739; C:mitochondrion; IEA.  
 KW Mitochondrion.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1341 MW; 538E371E33640DD7 CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
 ||  
 Db 5 AR 6

RESULT 61

Q9G649

ID Q9G649 PRELIMINARY; PRT; 11 AA.  
 AC Q9G649;  
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)

DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE Cytochrome c oxidase subunit I (Fragment).  
 GN COI.  
 OS Otocryptis wiegmanni.  
 OG Mitochondrion.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Lepidosauria; Squamata; Iguania; Acrodonta; Agamidae; Draconinae;  
 OC Otocryptis.  
 OX NCBI\_TaxID=118220;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114082; PubMed=12118408;  
 RA Macey J.R., Schulte J.A. II, Larson A.;  
 RT "Evolution and information content of the mitochondrial genomic  
 RT structural features illustrated with acrodont lizards."  
 RL Syst. Biol. 49:257-277(2000).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114081; PubMed=12118407;  
 RA Macey J.R., Schulte J.A. II, Larson A., Ananjeva N.B., Wang Y.,  
 RA Pethiyagoda R., Rastegar-Pouyani N., Papenfuss T.J.;  
 RT "Evaluating Trans-Tethys migration: An example using Acrodont lizard  
 RT phylogenetics."  
 RL Syst. Biol. 49:233-256(2000).  
 DR EMBL; AF128480; AAG00677.1; -.  
 DR GO; GO:0005739; C:mitochondrion; IEA.  
 KW Mitochondrion.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1347 MW; 932D3710D3640DC1 CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
 ||  
 Db 5 AR 6

# RESULT 62

Q9G5Z8

ID Q9G5Z8 PRELIMINARY; PRT; 11 AA.

AC Q9G5Z8;

DT 01-MAR-2001 (TrEMBLrel. 16, Created)

DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)

DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)

DE Cytochrome c oxidase subunit I (Fragment).

GN COI.

OS Acanthosaura lepidogaster.

OG Mitochondrion.

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Lepidosauria; Squamata; Iguania; Acrodonta; Agamidae; Draconinae;

OC Acanthosaura.

OX NCBI\_TaxID=118088;

RN [1]

RP SEQUENCE FROM N.A.



RX MEDLINE=22114082; PubMed=12118408;  
 RA Macey J.R., Schulte J.A. II, Larson A.;  
 RT "Evolution and information content of the mitochondrial genomic  
 RT structural features illustrated with acrodont lizards.";  
 RL Syst. Biol. 49:257-277(2000).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114081; PubMed=12118407;  
 RA Macey J.R., Schulte J.A. II, Larson A., Ananjeva N.B., Wang Y.,  
 RA Pethiyagoda R., Rastegar-Pouyani N., Papenfuss T.J.;  
 RT "Evaluating Trans-Tethys migration: An example using Acrodont lizard  
 RT phylogenetics.";  
 RL Syst. Biol. 49:233-256(2000).  
 DR EMBL; AF128499; AAG00734.1; -.  
 DR GO; GO:0005739; C:mitochondrion; IEA.  
 KW Mitochondrion.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1279 MW; 5DF7371E33640DD7 CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
 ||  
 Db 5 AR 6

#### RESULT 63

Q94VH7

ID Q94VH7 PRELIMINARY; PRT; 11 AA.  
 AC Q94VH7;  
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE Cytochrome c oxidase subunit I (Fragment).  
 GN COI.  
 OS Varanus gilleni (Pygmy mulga monitor).  
 OG Mitochondrion.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Lepidosauria; Squamata; Scleroglossa; Anguimorpha; Varanidae; Varanus.  
 OX NCBI\_TaxID=169840;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Ast J.C.;  
 RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";  
 RL Cladistics 17:0-0(2001).  
 DR EMBL; AF407499; AAL10051.1; -.  
 DR GO; GO:0005739; C:mitochondrion; IEA.  
 KW Mitochondrion.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1340 MW; CF6DEE80C733640D CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
||  
Db 4 AR 5

RESULT 64

Q9G619

ID Q9G619 PRELIMINARY; PRT; 11 AA.  
AC Q9G619;  
DT 01-MAR-2001 (TrEMBLrel. 16, Created)  
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
DE Cytochrome c oxidase subunit I (Fragment).  
GN COI.  
OS Ceratophora aspera.  
OG Mitochondrion.  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Lepidosauria; Squamata; Iguania; Acrodonta; Agamidae; Draconinae;  
OC Ceratophora.  
OX NCBI\_TaxID=118195;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=22114082; PubMed=12118408;  
RA Macey J.R., Schulte J.A. II, Larson A.;  
RT "Evolution and information content of the mitochondrial genomic  
RT structural features illustrated with acrodont lizards.";  
RL Syst. Biol. 49:257-277(2000).  
RN [2]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=22114081; PubMed=12118407;  
RA Macey J.R., Schulte J.A. II, Larson A., Ananjeva N.B., Wang Y.,  
RA Pethiyagoda R., Rastegar-Pouyani N., Papenfuss T.J.;  
RT "Evaluating Trans-Tethys migration: An example using Acrodont lizard  
RT phylogenetics.";  
RL Syst. Biol. 49:233-256(2000).  
DR EMBL; AF128491; AAG00710.1; -.  
DR GO; GO:0005739; C:mitochondrion; IEA.  
KW Mitochondrion.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1264 MW; 5B2C371E33640DD7 CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
||  
Db 5 AR 6

RESULT 65

Q8WER7

ID Q8WER7 PRELIMINARY; PRT; 11 AA.  
AC Q8WER7;  
DT 01-MAR-2002 (TrEMBLrel. 20, Created)  
DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)  
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)

DE Cytochrome c oxidase subunit I (Fragment).  
 GN COI.  
 OS Ceratophora tennentii.  
 OG Mitochondrion.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Lepidosauria; Squamata; Iguania; Acrodonta; Agamidae; Draconinae;  
 OC Ceratophora.  
 OX NCBI\_TaxID=118087;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114082; PubMed=12118408;  
 RA Macey J.R., Schulte J.A. II, Larson A.;  
 RT "Evolution and phylogenetic information content of mitochondrial  
 RT genomic structural features illustrated with acrodont lizards.";  
 RL Syst. Biol. 49:257-277(2000).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=21655505; PubMed=11796034;  
 RA Schulte J.A. II, Macey J.R., Pethiyagoda R., Larson A.;  
 RT "Rostral Horn Evolution among Agamid Lizards of the Genus Ceratophora  
 RT Endemic to Sri Lanka.";  
 RL Mol. Phylogenet. Evol. 22:111-117(2002).  
 DR EMBL; AF128521; AAL67607.1; -.  
 DR GO; GO:0005739; C:mitochondrion; IEA.  
 KW Mitochondrion.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1264 MW; 5B2C371E33640DD7 CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
 ||  
 Db 5 AR 6

# RESULT 66

Q8WD50

ID Q8WD50 PRELIMINARY; PRT; 11 AA.  
 AC Q8WD50;  
 DT 01-MAR-2002 (TrEMBLrel. 20, Created)  
 DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE Cytochrome c oxidase subunit I (Fragment).  
 GN COI.  
 OS Ceratophora stoddartii.  
 OG Mitochondrion.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Lepidosauria; Squamata; Iguania; Acrodonta; Agamidae; Draconinae;  
 OC Ceratophora.  
 OX NCBI\_TaxID=118196;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=21655505; PubMed=11796034;  
 RA Schulte J.A. II, Macey J.R., Pethiyagoda R., Larson A.;  
 RT "Rostral Horn Evolution among Agamid Lizards of the Genus Ceratophora

RT Endemic to Sri Lanka.";  
RL Mol. Phylogenet. Evol. 22:111-117(2002).  
DR EMBL; AF364053; AAL68024.1; -.  
DR GO; GO:0005739; C:mitochondrion; IEA.  
KW Mitochondrion.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1264 MW; 5B2C371E33640DD7 CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
||  
Db 5 AR 6

RESULT 67

Q35374

ID Q35374 PRELIMINARY; PRT; 11 AA.  
AC Q35374;  
DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
DE P1 protein (Fragment).  
OS Paramecium tetraurelia.  
OG Mitochondrion.  
OC Eukaryota; Alveolata; Ciliophora; Oligohymenophorea; Peniculida;  
OC Paramecium.  
OX NCBI\_TaxID=5888;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=stock 172;  
RX MEDLINE=87055241; PubMed=3023187;  
RA Pritchard A.E., Seilhamer J.J., Cummings D.J.;  
RT "Paramecium mitochondrial DNA sequences and RNA transcripts for  
RT cytochrome oxidase subunit I, URF1, and three ORFs adjacent to the  
RT replication origin.";  
RL Gene 44:243-253(1986).  
DR EMBL; M15280; AAA79267.1; -.  
DR GO; GO:0005739; C:mitochondrion; IEA.  
KW Mitochondrion.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1266 MW; 1D84259D16D046D4 CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LN 5  
||  
Db 3 LN 4

RESULT 68

Q9G5X1

ID Q9G5X1 PRELIMINARY; PRT; 11 AA.

AC Q9G5X1;  
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)  
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE Cytochrome c oxidase subunit I (Fragment).  
 GN COI.  
 OS Trapelus persicus.  
 OG Mitochondrion.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Lepidosauria; Squamata; Iguania; Acrodonta; Agamidae; Agaminae;  
 OC Trapelus.  
 OX NCBI\_TaxID=118236;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114082; PubMed=12118408;  
 RA Macey J.R., Schulte J.A. II, Larson A.;  
 RT "Evolution and information content of the mitochondrial genomic  
 RT structural features illustrated with acrodont lizards.";  
 RL Syst. Biol. 49:257-277(2000).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114081; PubMed=12118407;  
 RA Macey J.R., Schulte J.A. II, Larson A., Ananjeva N.B., Wang Y.,  
 RA Pethiyagoda R., Rastegar-Pouyani N., Papenfuss T.J.;  
 RT "Evaluating Trans-Tethys migration: An example using Acrodont lizard  
 RT phylogenetics.";  
 RL Syst. Biol. 49:233-256(2000).  
 DR EMBL; AF128510; AAG00767.1; -.  
 DR GO; GO:0005739; C:mitochondrion; IEA.  
 KW Mitochondrion.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1279 MW; 5DF7371E33640DD7 CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
 ||  
 Db 5 AR 6

# RESULT 69

Q8WER4

ID Q8WER4 PRELIMINARY; PRT; 11 AA.

AC Q8WER4;

DT 01-MAR-2002 (TrEMBLrel. 20, Created)

DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)

DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)

DE Cytochrome c oxidase subunit I (Fragment).

GN COI.

OS Ceratophora erdeleni.

OG Mitochondrion.

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Lepidosauria; Squamata; Iguania; Acrodonta; Agamidae; Draconinae;

OC Ceratophora.

OX NCBI\_TaxID=118085;

RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114082; PubMed=12118408;  
 RA Macey J.R., Schulte J.A. II, Larson A.;  
 RT "Evolution and phylogenetic information content of mitochondrial  
 RT genomic structural features illustrated with acrodont lizards.";  
 RL Syst. Biol. 49:257-277(2000).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=21655505; PubMed=11796034;  
 RA Schulte J.A. II, Macey J.R., Pethiyagoda R., Larson A.;  
 RT "Rostral Horn Evolution among Agamid Lizards of the Genus Ceratophora  
 RT Endemic to Sri Lanka.";  
 RL Mol. Phylogenet. Evol. 22:111-117(2002).  
 DR EMBL; AF128522; AAL67610.1; -.  
 DR GO; GO:0005739; C:mitochondrion; IEA.  
 KW Mitochondrion.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1264 MW; 5B2C371E33640DD7 CRC64;  
  
 Query Match 18.2%; Score 2; DB 8; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
 Qy 1 AR 2  
 ||  
 Db 5 AR 6

# RESULT 70

Q9G682

ID Q9G682 PRELIMINARY; PRT; 11 AA.  
 AC Q9G682;  
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)  
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)  
 DE Cytochrome c oxidase subunit I (Fragment).  
 GN COI.  
 OS Chelosania brunnea (Chameleon dragon).  
 OG Mitochondrion.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Lepidosauria; Squamata; Iguania; Acrodonta; Agamidae; Amphibolurinae;  
 OC Chelosania.  
 OX NCBI\_TaxID=118199;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114082; PubMed=12118408;  
 RA Macey J.R., Schulte J.A. II, Larson A.;  
 RT "Evolution and information content of the mitochondrial genomic  
 RT structural features illustrated with acrodont lizards.";  
 RL Syst. Biol. 49:257-277(2000).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114081; PubMed=12118407;  
 RA Macey J.R., Schulte J.A. II, Larson A., Ananjeva N.B., Wang Y.,  
 RA Pethiyagoda R., Rastegar-Pouyani N., Papenfuss T.J.;  
 RT "Evaluating Trans-Tethys migration: An example using Acrodont lizard

RT phylogenetics.";  
 RL Syst. Biol. 49:233-256(2000).  
 DR EMBL; AF128465; AAG00632.1; -.  
 DR GO; GO:0005739; C:mitochondrion; IEA.  
 KW Mitochondrion.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1322 MW; 5DF7371E33640447 CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LN 5  
 ||  
 Db 4 LN 5

# RESULT 71

Q9G655

ID Q9G655 PRELIMINARY; PRT; 11 AA.  
 AC Q9G655;  
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)  
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE Cytochrome c oxidase subunit I (Fragment).  
 GN COI.  
 OS Japalura tricarinata.  
 OG Mitochondrion.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Lepidosauria; Squamata; Iguania; Acrodonta; Agamidae; Draconinae;  
 OC Japalura.  
 OX NCBI\_TaxID=118210;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114082; PubMed=12118408;  
 RA Macey J.R., Schulte J.A. II, Larson A.;  
 RT "Evolution and information content of the mitochondrial genomic  
 RT structural features illustrated with acrodont lizards.";  
 RL Syst. Biol. 49:257-277(2000).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22114081; PubMed=12118407;  
 RA Macey J.R., Schulte J.A. II, Larson A., Ananjeva N.B., Wang Y.,  
 RA Pethiyagoda R., Rastegar-Pouyani N., Papenfuss T.J.;  
 RT "Evaluating Trans-Tethys migration: An example using Acrodont lizard  
 RT phylogenetics.";  
 RL Syst. Biol. 49:233-256(2000).  
 DR EMBL; AF128478; AAG00671.1; -.  
 DR GO; GO:0005739; C:mitochondrion; IEA.  
 KW Mitochondrion.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1297 MW; A8F7371E33640DD6 CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
||  
Db 5 AR 6

RESULT 72

Q9G637

ID Q9G637 PRELIMINARY; PRT; 11 AA.  
AC Q9G637;  
DT 01-MAR-2001 (TrEMBLrel. 16, Created)  
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
DE Cytochrome c oxidase subunit I (Fragment).  
GN COI.  
OS Calotes liocephalus.  
OG Mitochondrion.  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Lepidosauria; Squamata; Iguania; Acrodonta; Agamidae; Draconinae;  
OC Calotes.  
OX NCBI\_TaxID=118095;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=22114082; PubMed=12118408;  
RA Macey J.R., Schulte J.A. II, Larson A.;  
RT "Evolution and information content of the mitochondrial genomic  
RT structural features illustrated with acrodont lizards.";  
RL Syst. Biol. 49:257-277(2000).  
RN [2]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=22114081; PubMed=12118407;  
RA Macey J.R., Schulte J.A. II, Larson A., Ananjeva N.B., Wang Y.,  
RA Pethiyagoda R., Rastegar-Pouyani N., Papenfuss T.J.;  
RT "Evaluating Trans-Tethys migration: An example using Acrodont lizard  
RT phylogenetics.";  
RL Syst. Biol. 49:233-256(2000).  
DR EMBL; AF128484; AAG00689.1; -.  
DR GO; GO:0005739; C:mitochondrion; IEA.  
KW Mitochondrion.  
FT NON\_TER 11 11  
SQ SEQUENCE 11 AA; 1325 MW; 47DE3710D3640DD7 CRC64;

Query Match 18.2%; Score 2; DB 8; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AR 2  
||  
Db 5 AR 6

RESULT 73

Q7Y9C8

ID Q7Y9C8 PRELIMINARY; PRT; 11 AA.  
AC Q7Y9C8;  
DT 01-OCT-2003 (TrEMBLrel. 25, Created)  
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)  
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)



DE Cytochrome c oxidase subunit I (Fragment).  
 GN COI.  
 OS Tympanocryptis intima.  
 OG Mitochondrion.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Lepidosauria; Squamata; Iguania; Acrodonta; Agamidae; Amphibolurinae;  
 OC Tympanocryptis.  
 OX NCBI\_TaxID=206607;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22653719; PubMed=12769459;  
 RA Schulte J.A. II, Melville J., Larson A.;  
 RT "Molecular phylogenetic evidence for ancient divergence of lizard taxa  
 on either side of Wallace's Line."  
 RL Proc. R. Soc. Lond., B, Biol. Sci. 270:597-603(2003).  
 DR EMBL; AY133029; AAN15910.1; -.  
 KW Mitochondrion.  
 FT NON\_TER 11 11  
 SQ SEQUENCE 11 AA; 1322 MW; 5DF7371E33640447 CRC64;  
  
 Query Match 18.2%; Score 2; DB 8; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1e+05;  
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
 QY 4 LN 5  
 ||  
 Db 4 LN 5

RESULT 74

Q38415

ID Q38415 PRELIMINARY; PRT; 11 AA.  
 AC Q38415;  
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)  
 DE Ant1 protein (Fragment).  
 OS Bacteriophage P7.  
 OC Viruses; dsDNA viruses, no RNA stage; Caudovirales; Myoviridae;  
 OC P1-like viruses.  
 OX NCBI\_TaxID=10682;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=90335968; PubMed=1696181;  
 RA Citron M., Schuster H.;  
 RT "The c4 repressors of bacteriophages P1 and P7 are antisense RNAs."  
 RL Cell 62:591-598(1990).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=92319637; PubMed=1620606;  
 RA Citron M., Schuster H.;  
 RT "The c4 repressor of bacteriophage P1 is a processed 77 base antisense  
 RNA."  
 RL Nucleic Acids Res. 20:3085-3090(1992).  
 DR EMBL; M35139; AAA32437.1; -.  
 DR PIR; S42449; S42449.  
 FT NON\_TER 11 11

SQ SEQUENCE 11 AA; 1315 MW; 38A55C6D11B2C737 CRC64;

Query Match 18.2%; Score 2; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KP 10

||

Db 3 KP 4

#### RESULT 75

Q06626

ID Q06626 PRELIMINARY; PRT; 11 AA.

AC Q06626;

DT 01-NOV-1996 (TrEMBLrel. 01, Created)

DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)

DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)

DE Patatin A gene protein (Fragment).

GN PATATIN A GENE.

OS Solanum tuberosum (Potato).

OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;

OC lamiids; Solanales; Solanaceae; Solanum.

OX NCBI\_TaxID=4113;

RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=93081729; PubMed=1450383;

RA Nap J.P., Dirkse W.G., Louwerse J., Onstenk J., Visser R., Loonen A.,

RA Heidekamp F., Stiekema W.J.;

RT "Analysis of the region in between two closely linked patatin genes:

RT class II promoter activity in tuber, root and leaf.";

RL Plant Mol. Biol. 20:683-694(1992).

DR EMBL; S51460; AAB24400.1; -.

FT NON\_TER 1 1

SQ SEQUENCE 11 AA; 1301 MW; 95577379DB1B1451 CRC64;

Query Match 18.2%; Score 2; DB 10; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AL 4

||

Db 8 AL 9

Search completed: April 8, 2004, 15:46:03

Job time : 29.7692 secs